

=> d his nofile

(FILE 'REGISTRY' ENTERED AT 11:33:21 ON 05 AUG 2008)

DEL HIS Y  
ACT ASCORBIC/A

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L1 ( 1)SEA ABB=ON PLU=ON 129499-78-1  
L2 ( 1)SEA ABB=ON PLU=ON 50-81-7  
L3 2 SEA ABB=ON PLU=ON L2 OR L1

-----  
ACT ADENOSINE/A

-----  
L4 ( 10)SEA ABB=ON PLU=ON (119588-63-5/BI OR 129499-78-1/BI OR  
130-49-4/BI OR 183476-82-6/BI OR 27556-18-9/BI OR 4578-31-8/BI  
OR 50-81-7/BI OR 60-92-4/BI OR 61-19-8/BI OR 84-21-9/BI)  
L5 5 SEA ABB=ON PLU=ON L4 AND ADENOSIN?

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ACT KAROL/A

L6 31 SEA ABB=ON PLU=ON 129499-78-1/CRN  
L7 1114 SEA ABB=ON PLU=ON 50-81-7/CRN  
L8 877 SEA ABB=ON PLU=ON 61-19-8/CRN  
L9 1145 SEA ABB=ON PLU=ON L6 OR L7  
L10 0 SEA ABB=ON PLU=ON L9 AND L8

FILE 'CAPLUS' ENTERED AT 11:49:46 ON 05 AUG 2008

L11 90812 SEA ABB=ON PLU=ON L3  
L12 81158 SEA ABB=ON PLU=ON L5  
L13 100092 SEA ABB=ON PLU=ON L11 OR ASCORBIC/OBI OR ASCORBATE/OBI  
L14 114137 SEA ABB=ON PLU=ON L12 OR (ADENOSINE (3W) ?PHOSPHA?)/BI  
L15 653 SEA ABB=ON PLU=ON L13 AND L14  
L16 101523 SEA ABB=ON PLU=ON L13 OR VITAMIN C/OBI  
L17 657 SEA ABB=ON PLU=ON L16 AND L14  
L18 73 SEA ABB=ON PLU=ON L17 AND 62/SC, SX  
L19 4760 SEA ABB=ON PLU=ON ANTIAG?/OBI  
L20 4057 SEA ABB=ON PLU=ON LIGHTEN?/OBI  
L21 45 SEA ABB=ON PLU=ON L17 AND COSMETI?/OBI  
L22 76 SEA ABB=ON PLU=ON L21 OR L18  
L23 14 SEA ABB=ON PLU=ON L22 AND L19  
L24 13 SEA ABB=ON PLU=ON L22 AND L20  
L25 19 SEA ABB=ON PLU=ON L23 OR L24

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L26 852 SEA ABB=ON PLU=ON ANTI AG###/OBI  
L27 4 SEA ABB=ON PLU=ON L26 AND L22  
L28 19 SEA ABB=ON PLU=ON L27 OR L25  
L29 5114 SEA ABB=ON PLU=ON ADENYLIC ACID#/OBI  
L30 115106 SEA ABB=ON PLU=ON L14 OR L29  
L31 659 SEA ABB=ON PLU=ON L30 AND L13  
L32 663 SEA ABB=ON PLU=ON L17 OR L31  
L33 14 SEA ABB=ON PLU=ON L32 AND (L26 OR L19)  
L34 13 SEA ABB=ON PLU=ON L32 AND L20  
L35 19 SEA ABB=ON PLU=ON L33 OR L34 OR L28

FILE 'REGISTRY' ENTERED AT 11:57:21 ON 05 AUG 2008

L36 9 SEA ABB=ON PLU=ON L9 AND (ADENOSI? OR ADENYLIC)  
L37 5253 SEA ABB=ON PLU=ON (L9 OR ASCORB? OR VITAMIN C)  
L38 95069 SEA ABB=ON PLU=ON LL8 OR (ADENOSIN? OR ADENYLIC?)  
L39 13 SEA ABB=ON PLU=ON L37 AND L38

# Jody Karol 10/523,605

L40 13 SEA ABB=ON PLU=ON L36 OR L39

FILE 'CAPLUS' ENTERED AT 12:00:02 ON 05 AUG 2008

L41 8 SEA ABB=ON PLU=ON L40

L42 0 SEA ABB=ON PLU=ON L41 AND (L26 OR (L19 OR L20))

L43 1 SEA ABB=ON PLU=ON L41 AND SKIN?/OBI

FILE 'CAPLUS' ENTERED AT 12:03:40 ON 05 AUG 2008

L44 642 SEA ABB=ON PLU=ON WAKAMATSU K?/AU

L45 10 SEA ABB=ON PLU=ON HARANO F?/AU

L46 122 SEA ABB=ON PLU=ON KOBA T?/AU

L47 735 SEA ABB=ON PLU=ON SHINOHARA S?/AU

L48 1500 SEA ABB=ON PLU=ON (L44 OR L45 OR L46 OR L47)

L49 10 SEA ABB=ON PLU=ON L48 AND (L26 OR (L19 OR L20))

L50 22 SEA ABB=ON PLU=ON L48 AND (L11 OR L12)

L51 2 SEA ABB=ON PLU=ON L48 AND (L11 AND L12)

L52 11 SEA ABB=ON PLU=ON L51 OR L49

L53 10 SEA ABB=ON PLU=ON L52 NOT (L35 OR L43)

FILE 'KOSMET' ENTERED AT 13:05:58 ON 05 AUG 2008

L54 42 SEA ABB=ON PLU=ON L2 OR L1

L55 473 SEA ABB=ON PLU=ON L54 OR ASCORBATE# OR ASCOBIC ACID# OR  
VITAMIN C

FILE 'REGISTRY' ENTERED AT 13:07:06 ON 05 AUG 2008

L56 1 SEA ABB=ON PLU=ON 61-19-8  
D SCAN

FILE 'KOSMET' ENTERED AT 13:07:20 ON 05 AUG 2008

L57 114 SEA ABB=ON PLU=ON L56 OR ADENOSINE (3W) ( PHOSPHATE# OR  
MONOPHOSPHATE# OR PHOSPHORIC ACID) OR ADENYLIC ACID# OR AMP OR  
ADENOVITE OR CARDIOMONE OR LYCEDAN OR PHOSADEN OR PHOSPHADEN  
OR PHOSPENTASIDE

L58 1 SEA ABB=ON PLU=ON L55 AND L57  
D SCAN  
D ALL

L59 7 SEA ABB=ON PLU=ON WAKAMATSU K?/AU

L60 0 SEA ABB=ON PLU=ON HARANO F?/AU  
E KOBA T?/AU

L61 1 SEA ABB=ON PLU=ON SHINOHARA S?/AU

L62 8 SEA ABB=ON PLU=ON (L59 OR L60 OR L61)

L63 0 SEA ABB=ON PLU=ON L62 AND (L57 OR L55)

FILE 'CAPLUS, KOSMET' ENTERED AT 13:12:09 ON 05 AUG 2008

L64 21 DUP REM L35 L43 L58 (0 DUPLICATES REMOVED)  
ANSWERS '1-20' FROM FILE CAPLUS  
ANSWER '21' FROM FILE KOSMET

=> fil caplus kosmet

FILE 'CAPLUS' ENTERED AT 13:13:21 ON 05 AUG 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE 'KOSMET' ENTERED AT 13:13:21 ON 05 AUG 2008

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L1 ( 1)SEA FILE=REGISTRY ABB=ON PLU=ON 129499-78-1
L2 ( 1)SEA FILE=REGISTRY ABB=ON PLU=ON 50-81-7
L3 2 SEA FILE=REGISTRY ABB=ON PLU=ON L2 OR L1
L4 ( 10)SEA FILE=REGISTRY ABB=ON PLU=ON (119588-63-5/BI OR 129499-78-
    1/BI OR 130-49-4/BI OR 183476-82-6/BI OR 27556-18-9/BI OR
    4578-31-8/BI OR 50-81-7/BI OR 60-92-4/BI OR 61-19-8/BI OR
    84-21-9/BI)
L5 5 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND ADENOSIN?
L6 31 SEA FILE=REGISTRY ABB=ON PLU=ON 129499-78-1/CRN
L7 1114 SEA FILE=REGISTRY ABB=ON PLU=ON 50-81-7/CRN
L9 1145 SEA FILE=REGISTRY ABB=ON PLU=ON L6 OR L7
L11 90812 SEA FILE=CAPLUS ABB=ON PLU=ON L3
L12 81158 SEA FILE=CAPLUS ABB=ON PLU=ON L5
L13 100092 SEA FILE=CAPLUS ABB=ON PLU=ON L11 OR ASCORBIC/OBI OR
    ASCORBATE/OBI
L14 114137 SEA FILE=CAPLUS ABB=ON PLU=ON L12 OR (ADENOSINE (3W)
    ?PHOSPHA?)/BI
L16 101523 SEA FILE=CAPLUS ABB=ON PLU=ON L13 OR VITAMIN C/OBI
L17 657 SEA FILE=CAPLUS ABB=ON PLU=ON L16 AND L14
L18 73 SEA FILE=CAPLUS ABB=ON PLU=ON L17 AND 62/SC, SX
L19 4760 SEA FILE=CAPLUS ABB=ON PLU=ON ANTIAG?/OBI
L20 4057 SEA FILE=CAPLUS ABB=ON PLU=ON LIGHTEN?/OBI
L21 45 SEA FILE=CAPLUS ABB=ON PLU=ON L17 AND COSMETI?/OBI
L22 76 SEA FILE=CAPLUS ABB=ON PLU=ON L21 OR L18
L23 14 SEA FILE=CAPLUS ABB=ON PLU=ON L22 AND L19
L24 13 SEA FILE=CAPLUS ABB=ON PLU=ON L22 AND L20
L25 19 SEA FILE=CAPLUS ABB=ON PLU=ON L23 OR L24
L26 852 SEA FILE=CAPLUS ABB=ON PLU=ON ANTI AG###/OBI
L27 4 SEA FILE=CAPLUS ABB=ON PLU=ON L26 AND L22
L28 19 SEA FILE=CAPLUS ABB=ON PLU=ON L27 OR L25
L29 5114 SEA FILE=CAPLUS ABB=ON PLU=ON ADENYLIC ACID#/OBI
L30 115106 SEA FILE=CAPLUS ABB=ON PLU=ON L14 OR L29
L31 659 SEA FILE=CAPLUS ABB=ON PLU=ON L30 AND L13
L32 663 SEA FILE=CAPLUS ABB=ON PLU=ON L17 OR L31
L33 14 SEA FILE=CAPLUS ABB=ON PLU=ON L32 AND (L26 OR L19)
L34 13 SEA FILE=CAPLUS ABB=ON PLU=ON L32 AND L20
L35 19 SEA FILE=CAPLUS ABB=ON PLU=ON L33 OR L34 OR L28
L36 9 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND (ADENOSI? OR ADENYLIC)
L37 5253 SEA FILE=REGISTRY ABB=ON PLU=ON (L9 OR ASCORB? OR VITAMIN C)
L38 95069 SEA FILE=REGISTRY ABB=ON PLU=ON LL8 OR (ADENOSIN? OR
    ADENYLIC?)
L39 13 SEA FILE=REGISTRY ABB=ON PLU=ON L37 AND L38
L40 13 SEA FILE=REGISTRY ABB=ON PLU=ON L36 OR L39
L41 8 SEA FILE=CAPLUS ABB=ON PLU=ON L40
L43 1 SEA FILE=CAPLUS ABB=ON PLU=ON L41 AND SKIN?/OBI
L54 42 SEA FILE=KOSMET ABB=ON PLU=ON L2 OR L1
L55 473 SEA FILE=KOSMET ABB=ON PLU=ON L54 OR ASCORBATE# OR ASCOBIC
    ACID# OR VITAMIN C

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# Jody Karol 10/523,605

L56 1 SEA FILE=REGISTRY ABB=ON PLU=ON 61-19-8  
 L57 114 SEA FILE=KOSMET ABB=ON PLU=ON L56 OR ADENOSINE (3W) (PHOSPHATE# OR MONOPHOSPHATE# OR PHOSPHORIC ACID) OR ADENYLIC ACID# OR AMP OR ADENOVITE OR CARDIOMONE OR LYCEDAN OR PHOSADEN OR PHOSPHADEN OR PHOSPENTASIDE  
 L58 1 SEA FILE=KOSMET ABB=ON PLU=ON L55 AND L57  
 L64 21 DUP REM L35 L43 L58 (0 DUPLICATES REMOVED)

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L1 ( 1)SEA FILE=REGISTRY ABB=ON PLU=ON 129499-78-1  
 L2 ( 1)SEA FILE=REGISTRY ABB=ON PLU=ON 50-81-7  
 L3 2 SEA FILE=REGISTRY ABB=ON PLU=ON L2 OR L1  
 L4 ( 10)SEA FILE=REGISTRY ABB=ON PLU=ON (119588-63-5/BI OR 129499-78-1/BI OR 130-49-4/BI OR 183476-82-6/BI OR 27556-18-9/BI OR 4578-31-8/BI OR 50-81-7/BI OR 60-92-4/BI OR 61-19-8/BI OR 84-21-9/BI)  
 L5 5 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND ADENOSIN?  
 L6 31 SEA FILE=REGISTRY ABB=ON PLU=ON 129499-78-1/CRN  
 L7 1114 SEA FILE=REGISTRY ABB=ON PLU=ON 50-81-7/CRN  
 L9 1145 SEA FILE=REGISTRY ABB=ON PLU=ON L6 OR L7  
 L11 90812 SEA FILE=CAPLUS ABB=ON PLU=ON L3  
 L12 81158 SEA FILE=CAPLUS ABB=ON PLU=ON L5  
 L13 100092 SEA FILE=CAPLUS ABB=ON PLU=ON L11 OR ASCORBIC/OBI OR ASCORBATE/OBI  
 L14 114137 SEA FILE=CAPLUS ABB=ON PLU=ON L12 OR (ADENOSINE (3W) ?PHOSPHA?)/BI  
 L16 101523 SEA FILE=CAPLUS ABB=ON PLU=ON L13 OR VITAMIN C/OBI  
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 L21 45 SEA FILE=CAPLUS ABB=ON PLU=ON L17 AND COSMETI?/OBI  
 L22 76 SEA FILE=CAPLUS ABB=ON PLU=ON L21 OR L18  
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 L46 122 SEA FILE=CAPLUS ABB=ON PLU=ON KOBA T?/AU

# Jody Karol 10/523,605

L47 735 SEA FILE=CAPLUS ABB=ON PLU=ON SHINOHARA S?/AU  
 L48 1500 SEA FILE=CAPLUS ABB=ON PLU=ON (L44 OR L45 OR L46 OR L47)  
 L49 10 SEA FILE=CAPLUS ABB=ON PLU=ON L48 AND (L26 OR (L19 OR L20))  
 L51 2 SEA FILE=CAPLUS ABB=ON PLU=ON L48 AND (L11 AND L12)  
 L52 11 SEA FILE=CAPLUS ABB=ON PLU=ON L51 OR L49  
 L53 10 SEA FILE=CAPLUS ABB=ON PLU=ON L52 NOT (L35 OR L43)

=> d .ca hitstr 164 1-20; d .ca 153 1-10

L64 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:410572 CAPLUS Full-text  
 DOCUMENT NUMBER: 146:407605  
 TITLE: Pharmaceutical preparation for external application to skin comprising phosphorylated sugar  
 INVENTOR(S): Tanaka, Tomoko; Kamasaka, Hiroshi; Sugimoto, Kazuhisa; Nishimura, Takahisa; Kuriki, Takashi  
 PATENT ASSIGNEE(S): Ezaki Glico Co., Ltd., Japan  
 SOURCE: PCT Int. Appl., 81pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007040027	A1	20070412	WO 2006-JP318203	20060913
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1932514	A1	20080618	EP 2006-810110	20060913
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
KR 2008055984	A	20080619	KR 2008-710744	20080502
PRIORITY APPLN. INFO.:			JP 2005-292362	A 20051005
			WO 2006-JP318203	W 20060913

ED Entered STN: 13 Apr 2007

AB Disclosed is a pharmaceutical preparation for external application to the skin, which comprises a phosphorylated sugar. The phosphorylated sugar may be an inorg. salt of a phosphorylated sugar. The phosphorylated sugar may be in the form of a calcium salt, a magnesium salt, a potassium salt, a zinc salt, an iron salt or a sodium salt. Also disclosed is a pharmaceutical preparation for external application to the skin, which comprises a phosphorylated sugar and a second component. The second component is selected from the group consisting of a moisturizing component, a skin-whitening agent, an UV-absorber, an anti-inflammatory agent, a cell-activating agent and an anti-oxidant. The moisturizing agent may be ascorbic acid or an ascorbic acid derivative. For example, a cosmetic lotion containing phosphorylated oligosaccharide potassium salt 0.5, glycerin, polyoxyethylene

- sorbitanonolaurate 1, preservative/fragrance, and water balance to 100 % was formulated, and examined for its skin-moisturizing effect in humans.
- CC 62-4 (Essential Oils and Cosmetics)  
Section cross-reference(s): 63
- IT Angelica acutiloba  
Anti-inflammatory agents  
Antioxidants  
Bath preparations  
Cosmetic creams  
Cosmetic emulsions  
Cosmetic lotions  
Cosmetic packs  
Cosmetic powders  
Cosmetics and personal care products  
Human  
Skin moisturizers  
Skin-lightening cosmetics  
UV stabilizers  
(pharmaceutical preparation for external application to skin comprising phosphorylated sugar and other active components)
- IT 50-28-2, Estradiol, biological studies 50-33-9, Phenylbutazone, biological studies 50-70-4, Sorbitol, biological studies 50-81-7, Ascorbic acid, biological studies 52-90-4, Cysteine, biological studies 53-86-1, Indometacin 56-81-5, Glycerin, biological studies 56-89-3, Cystine, biological studies 57-13-6, Urea, biological studies 57-55-6, Propylene glycol, biological studies 57-88-5, Cholesterol, biological studies 58-08-2, Caffeine, biological studies 58-55-9, Theophylline, biological studies 59-43-8, Thiamine, biological studies 59-67-6, Nicotinic acid, biological studies 60-92-4, Cyclic AMP 61-68-7, Mefenamic acid 65-23-6, Pyridoxin 65-71-4, Thymine 69-65-8, Mannitol 69-89-6, Xanthine 69-93-2, Uric acid, biological studies 70-18-8, Glutathione, biological studies 71-00-1, Histidine, biological studies 71-30-7, Cytosine 73-22-3, Tryptophan, biological studies 73-24-5, Adenine, biological studies 73-40-5, Guanine 83-88-5, Riboflavin, biological studies 89-65-6, Erythorbic acid 94-41-7, Chalcone 97-59-6, Allantoin 99-50-3, Protocatechuic acid 102-71-6, Triethanolamine, biological studies 107-88-0, 1,3-Butylene glycol 108-46-3, Resorcinol, biological studies 122-48-5, Gingerone 123-99-9, Azelaic acid, biological studies 128-37-0, biological studies 146-14-5, Flavin adenine dinucleotide 146-17-8, Flavin mononucleotide 149-91-7, Gallic acid, biological studies 150-76-5, Hydroquinone monomethyl ether 153-18-4, Rutin 303-98-0, Coenzyme Q10 305-84-0, Carnosine 331-39-5, Caffeic acid 404-86-4, Capsaicine 458-37-7, Curcumin 471-53-4, Glycyrrhetic acid 476-66-4, Ellagic acid 489-84-9, Guaiazulene 497-76-7, Arbutin 499-44-5, Hinokitiol 500-38-9, Nordihydroguaiaretic acid 501-30-4, Kojic acid 504-15-4 506-26-3,  $\gamma$ -Linolenic acid 523-73-9, Flavoglaucin 526-07-8, Sesamolin 533-31-3, Sesamol 555-66-8, Shogaol 584-85-0, Anserine 607-80-7, Sesamin 635-65-4, Bilirubin, biological studies 660-27-5, Diisopropylaminedichloroacetate 1135-24-6, Ferulic acid 1197-18-8, Tranexamic acid 1200-22-2,  $\alpha$ -Lipoic acid 1314-13-2, Zinc oxide, biological studies 1405-86-3, Glycyrrhizinic acid 1406-18-4, Vitamin E 3211-76-5, Selenomethionine 3650-73-5, HomoCarnosine 5957-80-2, Carnosol 6628-37-1, Sodium 2-hydroxy-4-methoxybenzophenone-5-sulfonate 6809-52-5, Teprenone 7631-90-5, Sodium hydrogen sulfite 7665-99-8, Cyclic GMP 7704-34-9, Sulfur, biological studies 9001-05-2, Catalase 9007-28-7, Chondroitin sulfate 9013-66-5 9031-37-2, Ceruloplasmin 9054-89-1, Superoxide dismutase 9067-32-7, Sodium hyaluronate 10417-94-4, Eicosapentaenoic acid 11103-57-4, Vitamin A 12001-76-2, Vitamin B 12738-23-7,

Jody Karol 10/523,605

Oryzanol 15687-27-1, Ibuprofen 19072-58-3, Vanillylamide 22071-15-4,  
Ketoprofen 25013-16-5 25429-38-3, Hydroxycinnamic acid 32762-51-9,  
Bromophenol 34644-03-6 36062-04-1, TetrahydroCurcumin 38882-78-9  
43119-47-7, Vitamin E nicotinate 53188-07-1, Trolox 53755-02-5,  
trans-Clovamide 53755-03-6, cis-Clovamide 56897-53-1, Carcinine  
58817-05-3 60940-34-3, Ebselen 77201-66-2 80702-44-9,

Riboflavinbutyrate 84380-01-8,  $\alpha$ -Arbutin 108910-78-7, Magnesium  
ascorbyl phosphate 185195-66-8

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)

(pharmaceutical preparation for external application to skin comprising  
phosphorylated sugar and other active components)

IT 50-81-7, Ascorbic acid, biological studies

60-92-4, Cyclic AMP

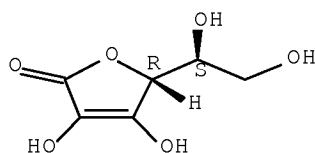
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)

(pharmaceutical preparation for external application to skin comprising  
phosphorylated sugar and other active components)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

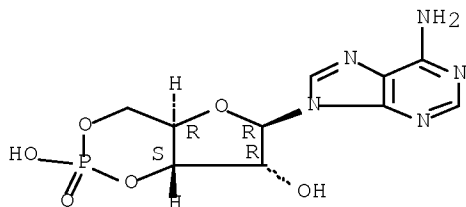
Absolute stereochemistry.



RN 60-92-4 CAPLUS

CN Adenosine, cyclic 3',5'-(hydrogen phosphate) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L64 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:173888 CAPLUS Full-text

DOCUMENT NUMBER: 146:212282

TITLE: Agent for enhancing collagen production and  
utilization of the same

INVENTOR(S): Miyata, Satomi; Ushio, Shimpei; Iwaki, Kanso; Miyake,  
Toshio

PATENT ASSIGNEE(S): Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo,  
Japan

SOURCE: PCT Int. Appl., 46pp.

# Jody Karol 10/523,605

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2007018124	A1	20070215	WO 2006-JP315410	20060803
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1932530	A1	20080618	EP 2006-782270	20060803
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
KR 2008034890	A	20080422	KR 2008-701705	20080122
CN 101232891	A	20080730	CN 2006-80028198	20080131
PRIORITY APPLN. INFO.:			JP 2005-232679	A 20050811
			WO 2006-JP315410	W 20060803

ED Entered STN: 16 Feb 2007

AB It is intended to provide a means exerting a prolonged effect of enhancing the production of collagen. This object can be achieved by an agent for enhancing collagen production which contains, as the active ingredient,  $\alpha,\alpha$ -trehalose and/or a sugar derivative of  $\alpha,\alpha$ -trehalose, or a composition for enhancing collagen production which contains the agent for enhancing collagen production as described above.

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 17

ST health food cosmetic trehalose collagen prodn enhancer

IT Skin, disease

(aging, wrinkles, improvement by; health foods and cosmetics

containing trehalose and addnl. actives for enhancing collagen production)

IT Antiaging cosmetics

Dentifrices

Health food

(health foods and cosmetics containing trehalose and addnl.

actives for enhancing collagen production)

IT Collagens, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(health foods and cosmetics containing trehalose and addnl.

actives for enhancing collagen production)

IT Mucopolysaccharides, biological studies

RL: COS (Cosmetic use); FFD (Food or feed use); BIOL (Biological study);

USES (Uses)

(health foods and cosmetics containing trehalose and addnl.

actives for enhancing collagen production)

IT Beverages

(health; health foods and cosmetics containing trehalose and

addnl. actives for enhancing collagen production)

IT 56-65-5, Adenosine triphosphate, biological studies

58-61-7, Adenosine, biological studies 58-64-0, Adenosine



# Jody Karol 10/523,605

diphosphate, biological studies 61-19-8,  
Adenosine monophosphate, biological studies 99-20-7,  
 $\alpha$ , $\alpha$ -Trehalose 303-98-0, Coenzyme Q10 3416-24-8,  
Glucosamine 9007-28-7, Chondroitin sulfate 9082-07-9, Sodium  
chondroitin sulfate 129499-78-1, L-Ascorbic acid  
2-glucoside 130603-71-3,  $\alpha$ G Rutin 738602-93-2, Tornare  
847870-90-0, Hallodex  
RL: COS (Cosmetic use); FFD (Food or feed use); BIOL (Biological study);  
USES (Uses)

(health foods and cosmetics containing trehalose and addnl.  
actives for enhancing collagen production)

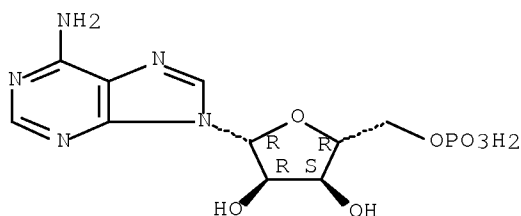
IT 61-19-8, Adenosine monophosphate, biological  
studies 129499-78-1, L-Ascorbic acid 2-glucoside  
RL: COS (Cosmetic use); FFD (Food or feed use); BIOL (Biological study);  
USES (Uses)

(health foods and cosmetics containing trehalose and addnl.  
actives for enhancing collagen production)

RN 61-19-8 CAPLUS

CN 5'-Adenylic acid (CA INDEX NAME)

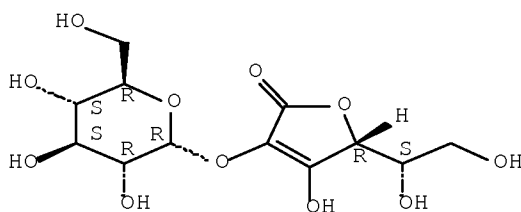
Absolute stereochemistry.



RN 129499-78-1 CAPLUS

CN L-Ascorbic acid, 2-O- $\alpha$ -D-glucopyranosyl- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L64 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:553554 CAPLUS Full-text

DOCUMENT NUMBER: 146:506934

TITLE: Liquid skin compositions stably containing  
glutathione, and skin-whitening and skin-beautifying  
compositions

INVENTOR(S): Matsuda, Kosuke; Matsuda, Tomotake; Okuda, Yoshinori;  
Iwasaki, Hiroyuki

# Jody Karol 10/523,605

PATENT ASSIGNEE(S): Vesubio K. K., Japan; Cosmetics Roland K. K.  
 SOURCE: Jpn. Tokkyo Koho, 14pp.  
 CODEN: JTXXFF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 3919123	B1	20070523	JP 2005-373497	20051226
JP 2007176798	A	20070712		

PRIORITY APPLN. INFO.: JP 2005-373497 20051226

ED Entered STN: 23 May 2007

AB It is intended to provide a liquid skin composition containing glutathione, especially reduced glutathione, with improved storage stability of glutathione. Disclosed is a liquid skin composition containing whey fraction, molasses fraction, and glutathione, wherein the molasses fraction is obtained by extraction with an alc. or an alc./water mixture and decoloration thereof. A skin composition further containing carboxylic acid, skin-whitening component, and/or skin-beautifying agent is also disclosed. For example, a skin composition containing glutathione 1, cattle colostrum whey fraction 5, active carbon-treated molasses ethanol extract 5, ascorbic acid, sodium ascorbate, and water balance to 100 % was formulated, and tested for the storage stability.

CC 62-4 (Essential Oils and Cosmetics)

IT Cosmetics and personal care products

Royal jelly

Skin-lightening cosmetics

Wrinkle-preventing cosmetics

(liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)

IT 50-21-5, Lactic acid, biological studies 50-81-7,

Ascorbic acid, biological studies 50-81-7D, L-

Ascorbic acid, alkyl esters 56-65-5, Adenosine

triphosphate, biological studies 61-19-8,

Adenosine monophosphate, biological studies 69-72-7,

Salicylic acid, biological studies 69-89-6, Xanthine 70-18-8,

Glutathione, biological studies 73-40-5, Guanine 79-14-1, Glycolic

acid, biological studies 108-46-3, Resorcin, biological studies

110-15-6, Succinic acid, biological studies 134-03-2, Sodium

ascorbate 331-39-5, Caffeic acid 463-40-1,  $\alpha$ -Linolenic

acid 481-49-2, Cepharanthin 497-76-7, Arbutin 506-26-3,

$\gamma$ -Linolenic acid 551-15-5, Liquiritin 1135-24-6, Ferulic acid

5041-81-6, IsoLiquiritin 6915-15-7, Malic acid 9067-32-7, Sodium

hyaluronate 10417-94-4, Eicosapentaenoic acid 56939-67-4D, derivs.

59870-68-7, Glabridin 60008-03-9, Glabrene 125913-31-7

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)

IT 50-81-7, Ascorbic acid, biological studies

50-81-7D, L-Ascorbic acid, alkyl esters 61-19-8

, Adenosine monophosphate, biological studies

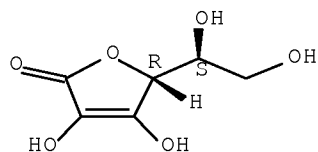
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)

RN 50-81-7 CAPLUS

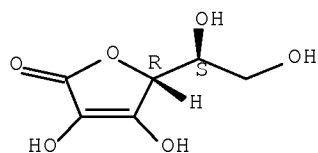
CN L-Ascorbic acid (CA INDEX NAME)

Absolute stereochemistry.



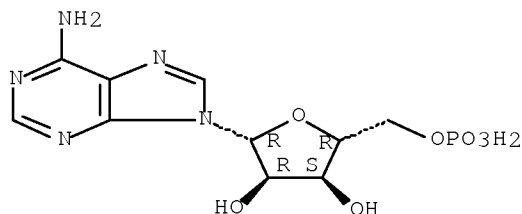
RN 50-81-7 CAPLUS  
CN L-Ascorbic acid (CA INDEX NAME)

Absolute stereochemistry.



RN 61-19-8 CAPLUS  
CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



L64 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2006:491792 CAPLUS [Full-text](#)  
DOCUMENT NUMBER: 145:14124  
TITLE: Topical delivery system comprising esters of hydroxy acids for cosmetic and pharmaceutical agents  
INVENTOR(S): Gupta, Shyam K.  
PATENT ASSIGNEE(S): Bioderm Research, USA  
SOURCE: U.S. Pat. Appl. Publ., 20 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060110415	A1	20060525	US 2004-904665	20041122
US 20070166255	A1	20070719	US 2007-670942	20070202
PRIORITY APPLN. INFO.:			US 2004-904665	A2 20041122
			US 2005-161856	A2 20050819

ED Entered STN: 25 May 2006

AB This invention relates to topical compns. containing esters of hydroxy acids and their application in the deep-penetration delivery of beneficial cosmetic and pharmaceutical agents. An ester of a hydroxy acid is selected from alkyl and aryl esters of glycolic, malic, lactic, mandelic, ascorbic, phytic, salicylic, aleuritic, and tartaric acids, etc. Thus, a skin whitening serum was prepared containing Et lactate 20.0, hydroxypropyl guar 0.5,, quinacetophenone 5.0, PEG-6 70.0, arbutin 4.0, and preservatives 0.5 parts, resp. The product had a clear to slightly hazy serum-like appearance. It was absorbed rapidly with a silky smooth skin feel. Also, an arthritis pain relief anti-inflammatory gel was prepared containing tri-Et citrate 55.65, Polyamide-3 5.0, preservative 0.5, Boswellia serrata extract 0.05, N-acetylglucosamine 2.0, methylsulfonylmethane 5.0, Aloe vera 0.1, vitamin E 0.5, paeonol 0.5, magnolol 0.2, chondroitin sulfate 0.5, and zeolite 30.0 parts, resp.

INCL 424401000; 424059000

CC 62-4 (Essential Oils and Cosmetics)  
Section cross-reference(s): 63

ST hydroxycarboxylic acid ester penetration enhancer topical cosmetic pharmaceutical

IT Polyvinyl acetals  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(diethylamino)acetals; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)

IT Alcohols, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(C16-18; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)

IT Fats and Glyceridic oils, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(Murumuru butter; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)

IT Quaternary ammonium compounds, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(Tritons; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)

IT Regeneration, animal  
(agents for induction of; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)

IT Sebum  
(agents for modulation of; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)

IT Acne  
Pruritus  
Psoriasis  
Seborrhea  
Sleep disorders  
(agents for treatment of; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)

IT Skin, disease  
(aging, agents for treatment of; topical delivery systems comprising

- esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Surfactants  
(amphoteric; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Fats and Glyceridic oils, biological studies  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(animal, reduction of excess; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Surfactants  
(anionic; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Hair preparations  
(antidandruff; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Fats and Glyceridic oils, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(apricot kernel; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Skin preparations (pharmaceutical)  
(astringents; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Pinus  
(bark extract; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Soaps  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(bars; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Spheres  
(beads; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Panax  
(berry exts.; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Collagens, biological studies  
Elastins  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(boosting agents; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Surfactants  
(cationic; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Skin  
(cellulite, agents for control of; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Tobacco smoke  
(cessation agents; topical delivery systems comprising esters of

- hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(cetyl Me, di-Me; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Fatty acids, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(coco, 2-sulfoethyl esters, sodium salts; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Drug delivery systems  
(colloids; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT DNA  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(complexes, with ascorbic acid; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics  
Hair preparations  
(conditioners; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics  
(creams; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Skin  
(darkening and lightening agents; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics  
(depilatories; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cyclosiloxanes  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(di-Me; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Ketones, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(diketones, unsatd., curcuminoids, tetrahydro, derivs.; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics  
Drug delivery systems  
(emollients; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics  
Drug delivery systems  
(emulsions; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical

- uses)
- IT Aesculus hippocastanum
- Ammi visnaga
- Arctostaphylos uva-ursi
- Arnica montana
- Aspergillus oryzae
- Avena sativa
- Boswellia serrata
- Broussonetia kazinoki
- Calendula officinalis
- Camellia sinensis
- Centella asiatica
- Cordia schomburgkii
- Corynanthe johimbe
- Ecklonia cava
- Emblica
- Filipendula ulmaria
- Gouania blanchetiana
- Gymnema sylvestre
- Hedera helix
- Hibiscus furcellatus
- Hypericum perforatum
- Kaempferia galanga
- Laminaria
- Leukocyte
- Maprounea guianensis
- Melilotus officinalis
- Mitracarpus scaber
- Orthosiphon stamineus
- Panax ginseng
- Phaseolus vulgaris
- Phyllanthus emblica
- Plectranthus barbatus
- Potentilla erecta
- Randia armata
- Rosmarinus officinalis
- Rumex crispus
- Ruscus aculeatus
- Salvia officinalis
- Siegesbeckia orientalis
- Spondias mombin
- Tephrosia
- Terminalia sericea
- Trigonella foenum-graecum
- Waltheria indica
- Zingiber officinale
- (extract; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Embryophyta
- Plants
- Rumex occidentalis
- Tea products
- (exts.; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics
- (face packs; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics
- Drug delivery systems

- (gels; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Fats and Glyceridic oils, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(grape seed; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Tea products  
(green, extract of, Green tea extract; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Dyes  
(green/blue; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Hair preparations  
(growth inhibitors; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Hair preparations  
(growth stimulants; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Plantago psyllium  
(husk; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Carboxylic acids, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(hydroxy, esters; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Garcinia cambogia  
(hydroxycitric acid of; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Drug delivery systems  
(implants, skin surface; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Sexual disorders  
(impotence, agents for treatment of; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Skin, disease  
(irritation, agents for prevention/treatment of; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics  
(lip balms; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Soaps  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(liquid; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics  
Drug delivery systems  
(liqs.; topical delivery systems comprising esters of hydroxy acids as



- penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics
  - Drug delivery systems
    - (lotions; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Fats and Glyceridic oils, biological studies
  - RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
    - (mango kernel; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Circulation
  - (microcirculation, agents for improvement of; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Melanins
  - RL: BSU (Biological study, unclassified); BIOL (Biological study)
    - (modulating agent; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics
  - (moisturizers; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Mental and behavioral disorders
  - (mood-affecting, agents for treatment of; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics
  - Drug delivery systems
    - (nanoparticles; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Surfactants
  - (nonionic; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Bath preparations
  - (oils; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Drug delivery systems
  - (ointments, creams; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Resins
  - RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
    - (oleoresins, paprika; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Luffa
  - (particles; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Sulfonic acids, biological studies
  - RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
    - (polymers; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical

- uses)
- IT Phenols, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(polyphenols, nonpolymeric; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Glycyrrhiza glabra  
(root exts.; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Resins  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(sandarac; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Amines, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(secondary, bis-, polymers with ethylenediamine and hydrogenated dilinoleates; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cola (plant)  
Vitis vinifera  
(seed extract; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics  
(serums; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Protein hydrolyzates  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(silk; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Drug delivery systems  
(solns.; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Protein hydrolyzates  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(soya; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics  
Drug delivery systems  
(sprays; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Cosmetics  
(sticks; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Polymers, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(sulfo-containing; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Drug delivery systems  
(suspensions; topical delivery systems comprising esters of hydroxy

- acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Hibiscus sabdariffa
  - (tea extract; topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Aloe barbadensis
  - Analgesics
  - Andrographis paniculata
  - Anesthetics
  - Anti-inflammatory agents
  - Antianginal agents
  - Antibacterial agents
  - Antibiotics
  - Antidepressants
  - Antidiabetic agents
  - Antidiarrheals
  - Antiemetics
  - Antimigraine agents
  - Antiobesity agents
  - Antiosteoporotic agents
  - Antioxidants
  - Antiparkinsonian agents
  - Antiperspirants
  - Antiulcer agents
  - Antiviral agents
  - Bronchodilators
  - Citrus sinensis
  - Colloids
  - Colognes
  - Coloring materials
  - Curcuma longa
  - Fungicides
  - Garcinia mangostana
  - Haematococcus
  - Human
  - Humectants
  - Immunomodulators
  - Lycopersicon esculentum
  - Mangifera indica
  - Olea europaea
  - Orange
  - Perfumes
  - Permeation enhancers
  - Polygonum cuspidatum
  - Preservatives
  - Punica granatum
  - Seed
  - Shampoos
  - Solubilizers
  - Sunscreens
  - Suspensions
  - Tagetes patula
  - UV stabilizers
  - Vaccinium
  - Vaccinium myrtillus
  - Wound healing promoters
    - (topical delivery systems comprising esters of hydroxy acids as penetration enhancers for cosmetic and pharmaceutical uses)
- IT Carotenes, biological studies

Clays, biological studies  
Cocoa butter  
Glycols, biological studies  
Hormones, animal, biological studies  
Kaolin, biological studies  
Lipoproteins  
Mica-group minerals, biological studies  
Mineral elements, biological studies  
Petrolatum  
Polyoxyalkylenes, biological studies  
Polysiloxanes, biological studies  
Retinoids  
Rosin  
Shellac  
Silica gel, biological studies  
Silicates, biological studies  
Silicone rubber, biological studies  
Steroids, biological studies  
Ureas  
Vitamins  
Zeins  
Zeolites (synthetic), biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(topical delivery systems comprising esters of hydroxy acids as  
penetration enhancers for cosmetic and pharmaceutical uses)  
IT Drug delivery systems  
(transdermal; topical delivery systems comprising esters of hydroxy  
acids as penetration enhancers for cosmetic and  
pharmaceutical uses)  
IT Fats and Glyceridic oils, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(ximenia; topical delivery systems comprising esters of hydroxy acids  
as penetration enhancers for cosmetic and pharmaceutical  
uses)  
IT Surfactants  
(zwitterionic; topical delivery systems comprising esters of hydroxy  
acids as penetration enhancers for cosmetic and  
pharmaceutical uses)  
IT 89-84-9  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(Resacetophenone; topical delivery systems comprising esters of hydroxy  
acids as penetration enhancers for cosmetic and  
pharmaceutical uses)  
IT 9002-88-4, Polyethylene  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(balls; topical delivery systems comprising esters of hydroxy acids as  
penetration enhancers for cosmetic and pharmaceutical uses)  
IT 9001-66-5, MAO  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(inhibitors; topical delivery systems comprising esters of hydroxy  
acids as penetration enhancers for cosmetic and  
pharmaceutical uses)  
IT 50-21-5, Lactic acid, biological studies 50-21-5D, Lactic acid, alkyl  
and aryl esters 50-81-7, L-Ascorbic acid, biological  
studies 50-81-7D, Ascorbic acid, alkyl and aryl esters  
50-81-7D, L-Ascorbic acid, derivs. 51-67-2, Tyramine

53-41-8, Androsterone 53-43-0, Dehydroepiandrosterone 53-86-1, Indomethacin 56-65-5, Adenosine triphosphate, biological studies 56-81-5, Glycerin, biological studies 56-86-0D, L-Glutamic acid, N-acyl diamides, biological studies 57-00-1, Creatine 57-55-6, Propylene glycol, biological studies 57-83-0, Progesterone, biological studies 58-08-2, Caffeine, biological studies 58-22-0, Testosterone 58-55-9, Theophylline, biological studies 58-61-7, Adenosine, biological studies 58-63-9, Inosine 58-64-0, Adenosine diphosphate, biological studies 58-85-5, Biotin 59-30-3, Folic acid, biological studies 59-67-6, Niacin, biological studies 59-67-6D, Niacin, esters 63-05-8, Androstenedione 65-19-0, Yohimbine hydrochloride 65-85-0D, Benzoic acid, C2-15-alkyl esters 67-71-0, Methylsulfonylmethane 68-26-8, Retinol 69-72-7, Salicylic acid, biological studies 69-72-7D, Salicylic acid, alkyl and aryl esters 70-18-8, Glutathione, biological studies 73-31-4, Melatonin 76-30-2D, Dihydroxytartaric acid, alkyl and aryl esters 76-89-1 77-52-1, Ursolic acid 77-89-4, Acetyl triethyl citrate 77-90-7, Acetyl tributyl citrate 77-92-9, Citric acid, biological studies 77-92-9D, Citric acid, alkyl and aryl esters 77-93-0 77-94-1 79-10-7D, Acrylic acid, derivs., polymers 79-14-1, Glycolic acid, biological studies 79-14-1D, Glycolic acid, alkyl and aryl esters 79-41-4D, Methacrylic acid, aminoalkyl esters, polymers 80-55-7 80-69-3D, Tartronic Acid, alkyl and aryl esters 83-67-0, Theobromine 83-72-7, Lawsone 83-86-3, Phytic acid 83-86-3D, Phytic acid, alkyl and aryl esters 87-69-4D, Tartaric acid, alkyl and aryl esters 87-73-0D, Saccharic acid, alkyl and aryl esters 87-91-2, Diethyl tartrate 90-64-2, Mandelic acid 90-64-2D, Mandelic acid, alkyl and aryl esters 93-60-7, Methyl nicotinate 94-07-5, Synephrine 94-09-7, Benzocaine 94-13-3, Propyl paraben 94-44-0, Benzyl nicotinate 94-62-2, Piperine 96-35-5, Methyl glycolate 97-59-6, Allantoin 97-64-3, Ethyl lactate 98-92-0, Niacinamide 99-93-4 100-51-6, Benzyl alcohol, biological studies 101-20-2, Triclocarban 104-14-3, Octopamine 104-28-9, Cinoxate 104-29-0 107-15-3D, Ethylenediamine, polymers with hydrogenated dilinoleates and bis(dialkyl) amines 107-41-5, Hexylene glycol 107-68-6D, cocoyl derivs., sodium salts 111-29-5, Pentylene glycol 111-90-0 117-39-5, Quercetin 118-56-9, Homosalate 118-60-5, 2-Ethylhexyl salicylate 118-61-6, Ethyl salicylate 118-93-4 119-36-8, Methyl salicylate 121-71-1 122-99-6, Phenoxyethanol 123-31-9, Hydroquinone, biological studies 127-17-3, Pyruvic acid, biological studies 127-17-3D, Pyruvic acid, salts 127-40-2, Lutein 131-57-7, Benzophenone-3 133-38-0D, Dihydroxyfumaric acid, alkyl and aryl esters 134-09-8, Menthyl anthranilate 136-44-7, Glyceryl p-aminobenzoate 137-58-6, Lidocaine 138-22-7, Butyl lactate 139-44-6, Trihydroxystearin 145-13-1, Pregnenolone 146-48-5, Yohimbine 147-81-9, Arabinose 150-13-0, PABA 153-18-4, Rutin 300-85-6D,  $\beta$ -Hydroxybutyric acid, alkyl and aryl esters 302-79-4, Tretinoin 305-84-0, Carnosine 317-34-0, Aminophylline 320-77-4D, Isocitric acid, alkyl and aryl esters 327-97-9, Chlorogenic acid 370-98-9, N-Methyltyramine 404-86-4, Capsaicin 471-53-4, Glycyrrhetic acid 472-11-7D, Ruscogenin, derivs. 472-61-7, Astaxanthin 473-81-4D, Glyceric acid, alkyl and aryl esters 476-66-4, Ellagic acid 477-32-7, Visnadine 480-66-0 488-69-7, Fructose-1,6-diphosphate 490-78-8 491-67-8, Baicalein 491-70-3, Luteolin 497-76-7, Arbutin 498-36-2D,  $\alpha$ -Hydroxyisocaproic acid, alkyl and aryl esters 501-36-0, Resveratrol 502-65-8, Lycopene 512-04-9, Diosgenin 515-30-0D, Atrolactic acid, alkyl and aryl esters 520-26-3, Hesperidin 520-27-4, Diosmin 520-36-5, Apigenin 520-45-6, Dehydroacetic acid 526-84-1D, Dihydroxymaleic acid, alkyl and aryl esters 526-95-4D, D-Gluconic acid, alkyl and aryl esters 526-99-8D, Mucic acid, alkyl and aryl esters 528-21-2 528-43-8, Magnolol 528-58-5, Cyanidin 531-75-9, Esculin

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539-15-1, Hordenine 541-15-1, L-Carnitine 547-64-8, Methyl lactate  
 548-04-9, Hypericin 552-41-0, Paeonol 557-34-6, Zinc acetate  
 585-24-0, Isobutyl lactate 594-61-6D,  $\alpha$ -Hydroxyisobutyric acid,  
 alkyl and aryl esters 600-15-7D,  $\alpha$ -Hydroxybutyric acid, alkyl and  
 aryl esters 602-41-5, Thiocolchicoside 608-68-4, Dimethyl tartrate  
 615-34-9 615-51-0 616-09-1, Propyl lactate 616-45-5, Pyrrolidone  
 617-51-6, Isopropyl lactate 623-50-7, Ethyl glycolate 623-61-0,  
 Isopropyl glycolate 631-25-4 685-73-4D, Galacturonic acid, alkyl and  
 aryl esters 699-83-2 774-40-3 816-50-2 828-01-3D,  
 $\beta$ -Phenyllactic acid, alkyl and aryl esters 872-50-4,  
 N-Methylpyrrolidone, biological studies 1112-33-0D, Pantoic acid, alkyl  
 and aryl esters 1197-09-7 1200-22-2,  $\alpha$ -Lipoic acid 1314-13-2,  
 Zinc oxide, biological studies 1323-66-6, Monostearyl citrate  
 1330-70-7D, Hydroxystearic acid, alkyl and aryl esters 1337-33-3,  
 Stearyl citrate 1399-64-0, Gymnemic acid 1406-16-2, Vitamin D  
 1406-18-4, Vitamin E 1450-74-4, 5'-Chloro-2'-hydroxyacetophenone  
 1450-75-5, 5'-Bromo-2'-hydroxyacetophenone 1587-20-8 1587-21-9  
 1818-27-5, 2,4,5-Trihydroxyacetophenone 1847-58-1, Sodium lauryl  
 sulfoacetate 1987-71-9, Nicotinamide ascorbate 2051-96-9,  
 Benzyl lactate 2086-83-1, Berberine 2110-78-3 2163-42-0,  
 Methylpropanediol 2174-16-5, Trolamine salicylate 2197-63-9, Dicetyl  
 phosphate 2398-96-1, Tolnaftate 2420-35-1, Methyl 2-  
 hydroxyoctadecanoate 2420-56-6, 10-trans,12-cis-Linoleic acid  
 2433-95-6 2457-50-3, 2-Acetylpyridine N-oxide 2540-56-9,  
 9-cis,11-trans-Linoleic acid 2887-72-1, 3',5'-Dibromo-4'-  
 hydroxyacetophenone 3055-94-5, Laureth-3 3196-84-7 3233-32-7  
 3321-92-4, 3',5'-Dichloro-2'-hydroxyacetophenone 3380-34-5, Triclosan  
 3486-35-9, Zinc carbonate 3714-17-8 3909-12-4D, Threonic acid, alkyl  
 and aryl esters 3956-93-2D, Idonic acid, alkyl and aryl esters  
 4026-18-0D,  $\alpha$ -Hydroxyisovaleric acid, alkyl and aryl esters  
 4055-06-5 4065-45-6, Sulisobenzone 4118-51-8 4181-80-0 4358-87-6  
 4552-00-5 4773-96-0, Mangiferin 5413-58-1 5426-43-7, Pentyl  
 glycolate 5426-51-7 5464-71-1, Octyl lactate 5466-77-3, 2-Ethylhexyl  
 p-methoxycinnamate 5508-58-7, Andrographolide 5542-21-2 6100-74-9  
 6144-28-1D, Dilinoleic acid, hydrogenated, derivs., polymers with  
 ethylenediamine and bis(dialkyl)amines 6147-11-1, Mangostin 6197-30-4,  
 Octocrylene 6283-86-9 6283-92-7, Dodecyl lactate 6290-46-6  
 6382-06-5 6556-12-3D, Glucuronic acid, alkyl and aryl esters 6602-83-1  
 6805-41-0, Escin 6829-55-6, Tocotrienol 6906-37-2D, Mannonic acid,  
 alkyl and aryl esters 6915-15-7, Malic acid 6915-15-7D, Malic acid,  
 alkyl and aryl esters 6938-26-7, Ethyl 2-hydroxypentanoate 7249-07-2  
 7397-62-8, Butyl glycolate  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)

(topical delivery systems comprising esters of hydroxy acids as  
 penetration enhancers for cosmetic and pharmaceutical uses)

IT 7439-96-5, Manganese, biological studies 7440-50-8, Copper, biological  
 studies 7440-66-6, Zinc, biological studies 7472-56-2 7512-17-6,  
 N-Acetyl-glucosamine 7631-86-9, Silica, biological studies 7757-82-6,  
 Sodium sulfate, biological studies 7775-50-0, Tristearyl citrate  
 7778-18-9, Calcium sulfate 8011-96-9, Calamine 8050-88-2, Celluloid  
 9002-72-6, Growth hormone 9003-05-8, Polyacrylamide 9003-39-8,  
 Polyvinylpyrrolidone 9004-38-0, Cellulose acetophthalate 9004-57-3,  
 Ethyl cellulose 9004-61-9, Hyaluronic acid 9004-61-9D, Hyaluronic  
 acid, alkyl and aryl esters 9004-74-4, Methoxypolyethylene glycol  
 9004-99-3, PEG stearate 9005-64-5, Polysorbate-20 9006-65-9,  
 Dimethicone 9006-65-9D, Dimethicone, crosslinked 9006-65-9D,  
 Dimethicone, vinyl dimethicone crosspolymer 9007-28-7, Chondroitin  
 sulfate 9012-76-4, Chitosan 9049-76-7, Hydroxypropyl starch

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9050-31-1, Hydroxypropyl methyl cellulose phthalate 9088-07-7,  
Natriuretic peptide 10216-17-8, Hydroxytetronic acid 11099-07-3,  
Glyceryl stearate 11103-57-4, Vitamin A 12001-76-2, Vitamin B  
12001-79-5, Vitamin K 13106-41-7 13382-27-9D, Galactonic acid, alkyl  
and aryl esters 13463-18-8, Glutathione ascorbate  
13463-67-7, Titanium dioxide, biological studies 13494-10-5 13544-79-1  
13674-16-3 13752-83-5D, Arabinonic acid, alkyl and aryl esters  
13752-84-6D, Erythronic acid, alkyl and aryl esters 14007-02-4  
14639-25-9, Chromium(III) picolinate 14919-24-5 15399-05-0  
16503-00-7 16544-70-0, Trihexyl citrate 16742-49-7, Methyl  
2-hydroxyeicosanoate 16742-51-1, Methyl 2-hydroxyhexadecanoate  
16830-15-2, Asiaticoside 17463-61-5 17812-24-7D, Ribonic acid, alkyl  
and aryl esters 17828-56-7D, Xylonic acid, alkyl and aryl esters  
17941-34-3, Aleuritic acid 17941-34-3D, Aleuritic acid, alkyl and aryl  
esters 18294-96-7, Ethyl 2-hydroxyheptanoate 18294-99-0 18295-02-8  
18295-04-0 18295-07-3 18925-86-5 19239-78-2 19329-89-6, Isopentyl  
lactate 20246-52-0D, Talonic acid, alkyl and aryl esters 20246-53-1D,  
Gulonic acid, alkyl and aryl esters 20279-51-0, Hexyl lactate  
20283-92-5, Rosmarinic acid 20309-57-3 20731-95-7 23351-51-1D,  
Glucoheptonic acid, alkyl and aryl esters 24871-35-0D, Altronic acid,  
alkyl and aryl esters 25086-15-1, Methacrylic acid-methyl methacrylate  
copolymer 25190-06-1, Polybutylene glycol 25212-88-8, Ethyl  
acrylate-methacrylic acid copolymer 25265-75-2, Butylene glycol  
25322-68-3, Polyethylene glycol 25322-69-4, Polypropylene glycol  
25618-55-7, Polyglycerol 26163-61-1 26326-73-8 26762-67-4,  
Octanediol 26838-05-1, Disodium lauryl sulfosuccinate 27178-06-9  
27517-34-6D, graft polymer derivs. 27750-10-3, Hydroxycitric acid  
27750-10-3D, Hydroxycitric acid, alkyl and aryl esters and salts  
28223-40-7D, Lyxonic acid, alkyl and aryl esters 28223-42-9D, Allonic  
acid, alkyl and aryl esters 28514-63-8 28572-98-7, Ethyl  
methacrylate-methacrylic acid copolymer 29130-41-4 29130-42-5  
29589-99-9, Distearyl citrate 29674-47-3, Methyl 2-hydroxybutanoate  
29710-25-6, 2-Ethylhexyl 12-hydroxystearate 32122-08-0 32619-42-4,  
Oleuropein 33709-29-4 34900-10-2 35161-44-5 35354-74-6, Honokiol  
36062-04-1, Tetrahydrocurcumin 36653-82-4, Cetyl alcohol 37205-99-5,  
Carboxymethyl ethyl cellulose 38771-96-9 39421-75-5, Hydroxypropyl  
guar 42175-34-8, Decyl lactate 45208-03-5, Dodecyl glycolate  
51067-85-7, Methyl 2-hydroxydodecanoate 51261-06-4 51261-08-6  
51261-33-7 51261-34-8 51261-35-9 51863-60-6, 3,5-  
Dihydroxyacetophenone 52089-54-0, Ethyl 2-hydroxybutanoate 52089-55-1,  
Ethyl 2-hydroxyhexanoate 52182-15-7 52182-16-8 52613-19-1  
53798-96-2 54340-91-9, Methyl 2-hydroxyheptanoate 55306-04-2,  
Sericoside 56009-40-6, Methyl 2-hydroxytetradecanoate 56210-21-0  
56780-58-6, Starch hydroxypropyltrimonium chloride 56842-80-9  
56996-83-9, Phaseolamine 57448-83-6 58450-52-5, Disodium laureth  
sulfosuccinate 59113-36-9, Diglycerol 59219-65-7, Darutoside  
59443-15-1 59854-10-3, tert-Butyl lactate 60787-27-1 61574-64-9  
62123-57-3 63167-15-7 63363-19-9 65277-53-4 65497-29-2, Guar  
hydroxypropyltrimonium chloride 66267-54-7 66267-58-1 66634-12-6,  
Niacinamide salicylate 68756-64-9, Methyl 2-hydroxyhexanoate  
70289-34-8 70356-09-1, Avobenzene 71138-97-1, Hydroxypropyl methyl  
cellulose acetate succinate 71271-24-4, Methyl 2-hydroxydecanoate  
73573-57-6 73634-76-1, Methyl 2-hydroxyoctanoate 73634-77-2  
74592-76-0 76414-35-2 76994-59-7 85918-30-5, 2,3,6-  
Trihydroxyacetophenone 86432-23-7, Sodium stearyl phthalamate  
90357-58-7, Propyl glycolate 90675-74-4 91776-00-0, PEG 120 methyl  
glucose dioleate 93168-18-4, Ethyl 2-hydroxyoctanoate 93993-87-4  
94006-12-9 94231-35-3 94983-14-9 100386-17-2 100495-94-1  
100528-82-3 100963-05-1 101396-13-8 101396-15-0 101453-14-9  
101996-62-7 101996-63-8 101996-64-9 101996-65-0 102162-44-7

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102370-27-4 103049-26-9 104037-54-9 105911-24-8 105911-25-9  
 106522-72-9 106522-73-0 108740-82-5 110343-04-9, Glycerol lactate  
 110713-02-5 110945-08-9 114214-84-5 114214-85-6 116435-95-1  
 116557-40-5 117576-13-3 118068-28-3 120154-90-7 120154-91-8, Octyl  
 2-hydroxyoctanoate 120154-92-9, Ethyl 2-hydroxyoctadecanoate  
 122579-43-5 124111-47-3 125913-31-7, Ascorbyl phosphate 125971-06-4  
 126679-54-7 126925-06-2 129086-73-3, Ethyl 2-hydroxytetradecanoate  
 134970-46-0 135322-32-6, Chitosan ascorbate 135970-30-8  
 136208-65-6 136208-68-9 136315-05-4 136599-01-4D, alkyl and aryl  
 esters 136745-48-7 143894-93-3, Decyl 2-hydroxyoctanoate 152167-64-1  
 152167-65-2 161776-71-2 162328-63-4 162328-64-5 162328-65-6  
 162328-67-8 163418-44-8 172098-18-9 172464-76-5 173855-08-8  
 174882-69-0, Pycnogenol 175897-68-4 176035-22-6 199282-59-2  
 199282-60-5 199282-61-6 199282-62-7 199282-63-8 199282-65-0  
 199282-66-1

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)

(topical delivery systems comprising esters of hydroxy acids as  
 penetration enhancers for cosmetic and pharmaceutical uses)

IT 199282-67-2 199282-70-7 199282-71-8 199282-73-0 199282-74-1  
 199282-75-2 199282-77-4 199282-78-5 199282-79-6 199282-80-9  
 199282-81-0 199282-82-1 199282-83-2 199282-84-3 199282-85-4  
 199282-86-5 199282-87-6 199282-88-7 199282-89-8 199282-90-1  
 199282-91-2 199282-92-3 199282-93-4 199282-94-5 199282-95-6  
 199282-96-7 199282-97-8 199282-98-9 199282-99-0 199283-00-6  
 199283-01-7 199283-02-8 199283-03-9 199283-04-0 199283-05-1  
 199283-06-2 199283-07-3 199283-08-4 199283-09-5 199283-10-8  
 199283-11-9 199283-12-0 199283-13-1 199283-14-2 199283-15-3  
 199283-16-4 199283-17-5 199283-18-6 199283-19-7 199283-20-0  
 199283-21-1 199283-22-2 199283-23-3 205131-94-8 211504-83-5  
 220038-45-9 221250-27-7 259545-29-4 316819-88-2,  
 2,3,5-Trihydroxyacetophenone 344268-32-2 344354-06-9 365566-60-5  
 405897-14-5 408332-88-7 438526-31-9 438526-32-0 439666-13-4  
 676608-06-3 676608-07-4, Chondroitin ascorbate 676608-08-5,  
 Carnosine ascorbate 683226-75-7 683226-76-8, Niacinamide  
 lactate 686298-78-2 697291-65-9, Phytosan 741264-99-3 786606-09-5  
 788121-73-3 856055-26-0 860708-13-0 862553-41-1 869901-47-3  
 887617-62-1 887617-63-2 887617-67-6 887617-68-7 887617-69-8  
 887617-70-1 887617-71-2 887617-72-3 887617-73-4 887617-74-5  
 887617-75-6 887617-76-7 887617-77-8 887617-78-9 887617-79-0  
 887617-80-3 887617-81-4 887617-82-5 887617-83-6 887617-84-7  
 887617-85-8 887617-86-9 887617-87-0 887617-88-1 887617-89-2  
 887617-90-5 887617-91-6 887617-92-7 887617-93-8 887617-94-9  
 887617-95-0 887617-96-1 887617-97-2 887617-98-3 887617-99-4  
 887618-00-0 887618-01-1 887618-02-2 887618-03-3 887618-04-4  
 887618-05-5 887618-06-6 887618-07-7 887618-08-8 887618-09-9  
 887618-10-2 887618-11-3 887618-12-4 887618-13-5 887618-14-6  
 887618-15-7 887618-16-8 887618-17-9 887618-18-0 887618-19-1  
 887618-20-4 887618-21-5 887618-22-6 887618-23-7 887618-24-8  
 887618-25-9 887618-26-0 887618-27-1 887618-28-2 887618-29-3  
 887618-30-6 887618-31-7 887618-32-8 887618-33-9 887618-34-0  
 887618-35-1 887618-36-2 887618-37-3 887618-38-4 887618-39-5  
 887618-40-8 887618-41-9 887618-42-0 887618-43-1 887618-44-2  
 887618-45-3 887618-46-4 887618-47-5 887618-48-6 887618-49-7  
 887618-50-0 887618-51-1 887618-52-2 887618-53-3 887618-54-4  
 887618-55-5 887618-56-6 887618-57-7 887618-58-8 887618-59-9  
 887618-60-2 887618-61-3 887618-62-4 887618-63-5 887618-64-6  
 887618-65-7 887618-66-8 887618-67-9 887618-68-0 887618-69-1  
 887618-70-4 887618-71-5 887618-72-6 887618-73-7 887618-74-8  
 887618-75-9 887618-76-0 887618-77-1 887618-78-2 887618-79-3



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887618-80-6	887618-81-7	887618-82-8	887618-83-9	887618-84-0
887618-85-1	887618-86-2	887618-87-3	887618-88-4	887618-89-5
887618-90-8	887618-91-9	887618-92-0	887618-93-1	887618-94-2
887618-95-3	887618-96-4	887618-97-5	887618-98-6	887618-99-7
887619-00-3	887619-01-4	887619-02-5	887619-03-6	887619-04-7
887619-05-8	887619-06-9	887619-07-0	887619-08-1	887619-09-2
887619-10-5	887619-11-6	887619-12-7	887619-13-8	887619-14-9
887619-15-0	887619-16-1	887619-17-2	887619-18-3	887619-19-4

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)

(topical delivery systems comprising esters of hydroxy acids as  
penetration enhancers for cosmetic and pharmaceutical uses)

IT	887619-20-7	887619-21-8	887619-22-9	887619-23-0	887619-24-1
	887619-25-2	887619-26-3	887619-27-4	887619-28-5	887619-29-6
	887619-30-9	887619-31-0	887619-32-1	887619-33-2	887619-34-3
	887619-35-4	887619-36-5	887619-37-6	887619-38-7	887619-39-8
	887619-40-1	887619-41-2	887619-42-3	887619-43-4	887619-44-5
	887619-45-6	887619-46-7	887619-47-8	887619-48-9	887619-49-0
	887619-50-3	887619-51-4	887619-52-5	887619-53-6	887619-54-7
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	887619-65-0	887619-66-1	887619-67-2	887619-68-3	887619-69-4
	887619-70-7	887619-71-8	887619-72-9	887619-73-0	887619-74-1
	887619-75-2	887619-76-3	887619-77-4	887619-78-5	887619-79-6
	887619-80-9	887619-81-0	887619-82-1	887619-83-2	887619-84-3
	887619-85-4	887619-86-5	887619-87-6	887619-88-7	887619-89-8
	887619-90-1	887619-91-2	887619-92-3	887619-93-4	887619-94-5
	887619-95-6	887619-96-7	887619-97-8	887619-98-9	887619-99-0
	887620-00-0	887620-01-1	887620-02-2	887620-03-3	887620-04-4
	887620-05-5	887620-06-6	887620-08-8	887620-10-2	887620-12-4
	887620-14-6	887620-17-9	887620-22-6	887620-24-8	887620-32-8
	887620-33-9	887620-35-1	887620-36-2	887620-37-3	887705-25-1
	887748-26-7	887748-27-8	887748-28-9	887748-29-0	887748-30-3
	887748-31-4	887748-32-5	887748-33-6	887748-34-7	887748-35-8
	887748-36-9	887748-37-0	887748-38-1	887748-39-2	887748-40-5

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)

(topical delivery systems comprising esters of hydroxy acids as  
penetration enhancers for cosmetic and pharmaceutical uses)

IT 50-81-7, L-Ascorbic acid, biological studies  
50-81-7D, Ascorbic acid, alkyl and aryl esters

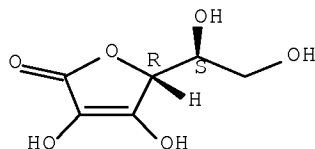
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)

(topical delivery systems comprising esters of hydroxy acids as  
penetration enhancers for cosmetic and pharmaceutical uses)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

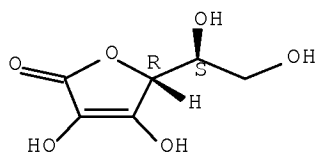
Absolute stereochemistry.



RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

Absolute stereochemistry.



L64 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2005:1173832 CAPLUS Full-text  
 DOCUMENT NUMBER: 143:426980  
 TITLE: Skin compositions containing Punica granatum flower extracts  
 INVENTOR(S): Yamahara, Joji  
 PATENT ASSIGNEE(S): Sakamoto Yakusoen Y. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005306831	A	20051104	JP 2004-151064	20040420

PRIORITY APPLN. INFO.: JP 2004-151064 20040420

ED Entered STN: 04 Nov 2005

AB The invention provides a skin composition characterized by containing Punica granatum flower extract as fibroblast-derived elastase inhibitor, wherein the composition has anti-aging and skin-lightening effect. Skin compns. containing further specified components are also disclosed. For example, a skin lotion containing Punica granatum flower extract 1, glycerin 3, 1,3-butylene glycol 2, polyethylene glycol 2, ethanol 5, Me paraben 0.1, xanthan gum 0.1, citric acid 0.01, sodium citrate 0.03, trimethylglycine 1, and water balance to 100 % was formulated.

IC ICM A61K007-48  
 ICS A61K007-00; A61K035-78; A61P017-00; A61P043-00

CC 62-4 (Essential Oils and Cosmetics)

ST Punica ext elastase inhibitor cosmetic

IT Cosmetics  
 (antiaging; skin compns. containing punica granatum flower extract and other active components)

IT Cosmetics  
 (creams; skin compns. containing punica granatum flower extract and other active components)

IT Cosmetics  
 (lotions; skin compns. containing punica granatum flower extract and other active components)

IT Cosmetics  
 (moisturizers; skin compns. containing punica granatum flower extract and other active components)

IT Cosmetics  
 (skin-lightening; skin compns. containing punica granatum flower extract and other active components)

IT 50-21-5, Lactic acid, biological studies 50-28-2, Estradiol, biological studies 50-33-9, Phenylbutazone, biological studies 50-70-4, Sorbitol,

biological studies 50-81-7, L-Ascorbic acid,  
 biological studies 50-99-7, Glucose, biological studies 51-35-4,  
 Hydroxyproline 51-84-3, Acetylcholine, biological studies 52-53-9,  
 Verapamil 52-90-4, L-Cysteine, biological studies 53-86-1,  
 Indomethacin 56-40-6, Glycine, biological studies 56-41-7, L-Alanine,  
 biological studies 56-45-1, L-Serine, biological studies 56-65-5,  
 Adenosine triphosphate, biological studies 56-81-5,  
 Glycerin, biological studies 56-84-8, L-Aspartic acid, biological  
 studies 56-85-9, L-Glutamine, biological studies 56-86-0, L-Glutamic  
 acid, biological studies 56-87-1, L-Lysine, biological studies  
 56-89-3, Cystine, biological studies 57-11-4, Stearic acid, biological  
 studies 57-13-6, Urea, biological studies 57-48-7, Fructose,  
 biological studies 57-50-1, Sucrose, biological studies 57-55-6,  
 Propylene glycol, biological studies 57-88-5, Cholesterol, biological  
 studies 58-08-2, Caffeine, biological studies 58-55-9, Theophylline,  
 biological studies 58-64-0, ADP, biological studies 58-86-6, Xylose,  
 biological studies 59-98-3, Tolazoline 60-18-4, L-Tyrosine, biological  
 studies 60-32-2 60-92-4, Cyclic AMP 61-19-8, AMP,  
 biological studies 61-68-7, Mefenamic acid 63-68-3, L-Methionine,  
 biological studies 63-91-2, L-Phenylalanine, biological studies  
 64-17-5, Ethanol, biological studies 65-71-4, Thymine 69-65-8,  
 Mannitol 69-79-4, Maltose 69-89-6, Xanthine 70-18-8, Glutathion,  
 biological studies 70-26-8, Ornithine 70-47-3, L-Asparagine,  
 biological studies 71-00-1, L-Histidine, biological studies 71-30-7,  
 Cytosine 72-18-4, L-Valine, biological studies 72-19-5, L-Threonine,  
 biological studies 73-22-3, L-Tryptophan, biological studies 73-24-5,  
 Adenine, biological studies 73-32-5, L-Isoleucine, biological studies  
 73-40-5, Guanine 74-79-3, L-Arginine, biological studies 77-92-9,  
 Citric acid, biological studies 79-14-1, Glycolic acid, biological  
 studies 81-13-0, Panthenol 87-69-4, Tartaric acid, biological studies  
 87-99-0, Xylitol 97-59-6, Allantoin 98-79-3, Pyrrolidone carboxylic  
 acid 99-20-7, Trehalose 107-88-0, 1,3Butyleneglycol 108-46-3,  
 1,3-Benzenediol, biological studies 110-15-6, Succinic acid, biological  
 studies 110-27-0, Isopropyl myristate 111-01-3, Squalane 111-02-4,  
 Squalene 112-85-6, Behenic acid 112-92-5, Stearyl alcohol 115-77-5,  
 Pentaerythritol, biological studies 122-48-5, Zingerone 123-31-9,  
 Hydroquinone, biological studies 128-37-0, Dibutylhydroxytoluene,  
 biological studies 134-03-2, Sodium ascorbate 137-66-6,  
 L-Ascorbyl palmitate 146-14-5, Flavin adenine dinucleotide 147-85-3,  
 L-Proline, biological studies 149-32-6, Erythritol 149-91-7, Gallic  
 acid, biological studies 298-57-7, Cinnarizine 331-39-5, Caffeic acid  
 372-75-8, Citrulline 404-86-4, Capsaicine 456-59-7, Cycandelate  
 463-40-1,  $\alpha$ -Linolenic acid 481-49-2, Cepharanthine 489-84-9,  
 Guaiazulene 497-76-7, Arbutin 506-26-3,  $\gamma$ -Linolenic acid  
 544-62-7, Batyl alcohol 544-63-8, Myristic acid, biological studies  
 551-15-5, Liquiritin 585-88-6, Maltitol 593-31-7, Selachylalcohol  
 1135-24-6, Ferulic acid 1190-94-9, Hydroxylysine 1197-18-8, Tranexamic  
 acid 1405-86-3, Glycyrrhizinic acid 1406-16-2, Vitamin D 1406-18-4,  
 Vitamin E 2444-46-4, Nonylic acid vanillyl amide 2568-33-4,  
 Isopreneglycol 3081-61-6, Theanine 5041-81-6, IsoLiquiritin  
 5743-27-1, Calcium ascorbate 6556-11-2, Inositol  
 hexanicotinate 6915-15-7, Malic acid 7665-99-8, Cyclic GMP  
 7678-95-7, Ethenyl estradiol 8029-68-3, Ichthammol 9004-53-9, Dextrin  
 9004-61-9, Hyaluronic acid 9004-73-3, Polymethylsiloxane 9005-12-3,  
 Methylphenylpolysiloxane 9005-32-7, Alginic acid 9005-49-6, Heparin,  
 biological studies 9007-28-7, Chondroitin sulfate 9050-30-0  
 9056-36-4, Keratan sulfate 9067-32-7, Sodium hyaluronate 10417-94-4,  
 Eicosapentaenoic acid 11042-64-1,  $\gamma$ -Orizanol 11103-57-4, Vitamin  
 A 12001-76-2, Vitamin B 15307-79-6, Sodium diclofenac 15421-15-5,

# Jody Karol 10/523,605

Potassium ascorbate 15431-40-0, Magnesium ascorbate  
 15687-27-1, Ibuprofen 22071-15-4, Ketoprofen 24967-94-0, Dermatan  
 sulfate 25013-16-5 25395-66-8, L-Ascorbyl stearate 28474-90-0,  
 L-Ascorbyl dipalmitate 28518-50-5, L-Ascorbic acid monooleate  
 29710-31-4, Cetyl octanoate 32381-28-5, N,N'-Diacetylcystine dimethyl  
 ester 35602-69-8, Cholesteryl stearate 36653-82-4, Cetanol  
 56939-67-4 59870-68-7, Glabridin 60008-03-9, Glabrene 74438-74-7, L-  
 Ascorbic acid distearate 92353-27-0, L-Ascorbic acid  
 dioleate 103000-77-7, Glycyrrhizinic acid 108910-78-7 110369-28-3  
 110369-30-7 110369-32-9 110369-35-2 110369-36-3 122715-02-0,  
 $\alpha$ -Borneol 123638-49-3, Aluminum ascorbate 125913-31-7  
 128808-19-5 128808-20-8 128808-21-9 128808-22-0, L-Ascorbic  
 acid sulfate sodium salt 128808-23-1 128808-24-2 128808-25-3  
 128808-26-4 129499-78-1, L-Ascorbic acid glucoside  
 138069-07-5 161436-56-2, L-Ascorbyl tetraisopalmitate 185323-25-5  
 404566-00-3, L-Ascorbic acid Isopalmitate 745794-24-5  
 745794-25-6

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (skin compns. containing punica granatum flower extract and other active  
 components)

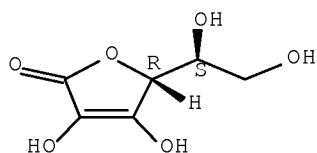
IT 50-81-7, L-Ascorbic acid, biological studies  
 60-92-4, Cyclic AMP 61-19-8, AMP, biological studies  
 129499-78-1, L-Ascorbic acid glucoside

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (skin compns. containing punica granatum flower extract and other active  
 components)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

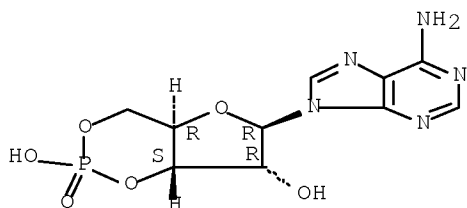
Absolute stereochemistry.



RN 60-92-4 CAPLUS

CN Adenosine, cyclic 3',5'-(hydrogen phosphate) (CA INDEX NAME)

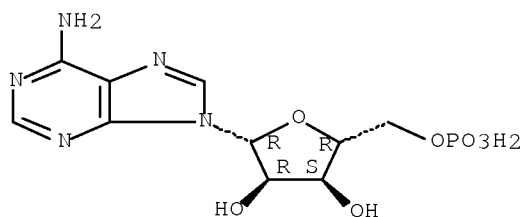
Absolute stereochemistry.



RN 61-19-8 CAPLUS

CN 5'-Adenylic acid (CA INDEX NAME)

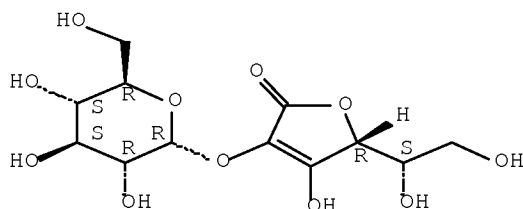
Absolute stereochemistry.



RN 129499-78-1 CAPLUS

CN L-Ascorbic acid, 2-O- $\alpha$ -D-glucopyranosyl- (CA INDEX NAME)

Absolute stereochemistry.



L64 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:162578 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 140:187005

TITLE: Antiaging compositions containing  
ascorbates and adenylic  
acids

INVENTOR(S): Wakamatsu, Kosaburo; Harano, Fumiki; Koba, Takashige;  
Shinohara, Shigeo

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004016238	A1	20040226	WO 2003-JP9783	20030801
W: AU, BR, CA, CN, ID, IN, KR, PH, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
JP 2004067576	A	20040304	JP 2002-228368	20020806
CA 2493496	A1	20040226	CA 2003-2493496	20030801
AU 2003252312	A1	20040303	AU 2003-252312	20030801
EP 1547577	A1	20050629	EP 2003-788027	20030801
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
BR 2003013274	A	20050705	BR 2003-13274	20030801
CN 1674863	A	20050928	CN 2003-818967	20030801
US 20050250710	A1	20051110	US 2005-523605	20050204
PRIORITY APPLN. INFO.:			JP 2002-228368	A 20020806
			WO 2003-JP9783	W 20030801

ED Entered STN: 29 Feb 2004

AB It is intended to provide an antiaging composition by which skin aging can be effectively retarded and, in particular, skin pigmentation can be improved. It is also intended to provide a method of potentiating the antiaging effect of ascorbic acid or its analog. Namely, an antiaging composition characterized by containing (A) at least one member selected from the group consisting of ascorbic acid, its derivs. and salts thereof; and (B) a purine nucleic acid-related substance. A method of using (A) at least one member selected from the group consisting of ascorbic acid, its derivs. and salts thereof together with (B) a purine nucleic acid-related substance to thereby potentiate the antiaging effect of the component A. For example, a lotion contained AMP 2, ascorbic acid 2-glucoside 2, 1,3-butylene glycol 2, concentrated glycerin 2, polyoxyethylene sorbitan monolaurate 1, ethanol 5, preservatives q.s., pH modifiers to pH 6.5, and distilled water balance to 100 %.

IC ICM A61K007-48

ICS A61K007-00; A61K031-375; A61K031-7076; A61P017-00; A61P043-00

CC 62-4 (Essential Oils and Cosmetics)

ST antiaging cosmetic ascorbate

adenosine phosphate; skin lightening

cosmetic ascorbate adenosine phosphate

IT Cosmetics

(antiaging; antiaging cosmetics containing ascorbate and adenosine phosphate)

IT Cosmetics

(skin-lightening; antiaging cosmetics containing ascorbate and adenosine phosphate)

IT 50-81-7, L-Ascorbic acid, biological studies

60-92-4, Cyclic adenosine 3',5'-monophosphate

61-19-8, Adenosine 5'-monophosphate, biological studies 84-21-9, Adenosine 3'-

monophosphate 130-49-4, Adenosine 2'-

monophosphate 4578-31-8, Adenosine 5'-

monophosphate disodium salt 27556-18-9 119588-63-5

129499-78-1, L-Ascorbic acid 2-glucoside 183476-82-6

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(antiaging cosmetics containing ascorbate and adenosine phosphate)

IT 50-81-7, L-Ascorbic acid, biological studies

60-92-4, Cyclic adenosine 3',5'-monophosphate

61-19-8, Adenosine 5'-monophosphate, biological studies 84-21-9, Adenosine 3'-

monophosphate 130-49-4, Adenosine 2'-

monophosphate 4578-31-8, Adenosine 5'-

monophosphate disodium salt 129499-78-1, L-

Ascorbic acid 2-glucoside

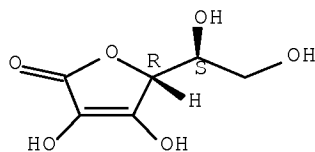
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(antiaging cosmetics containing ascorbate and adenosine phosphate)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

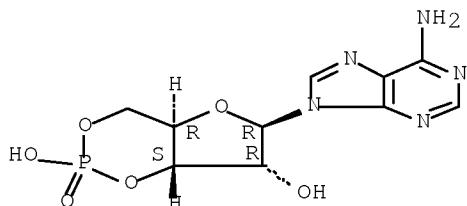
Absolute stereochemistry.



RN 60-92-4 CAPLUS

CN Adenosine, cyclic 3',5'-(hydrogen phosphate) (CA INDEX NAME)

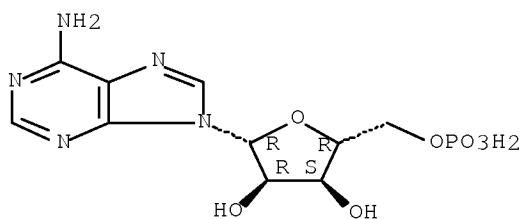
Absolute stereochemistry.



RN 61-19-8 CAPLUS

CN 5'-Adenylic acid (CA INDEX NAME)

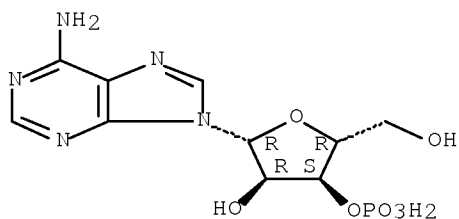
Absolute stereochemistry.



RN 84-21-9 CAPLUS

CN 3'-Adenylic acid (CA INDEX NAME)

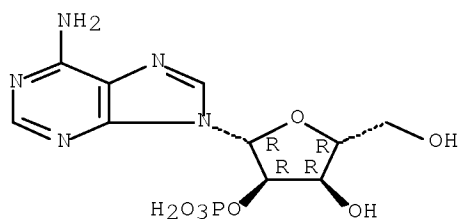
Absolute stereochemistry. Rotation (-).



RN 130-49-4 CAPLUS

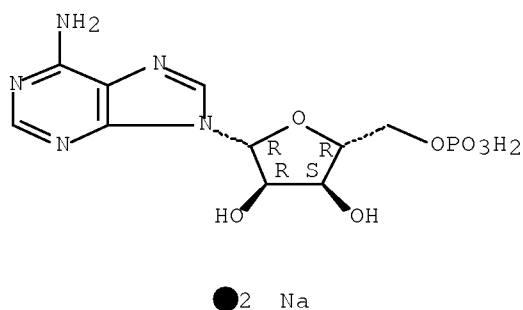
CN 2'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



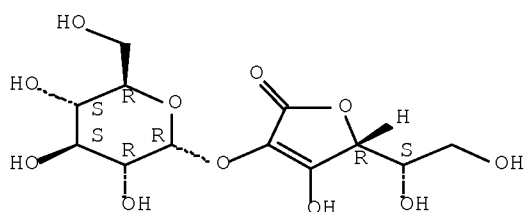
RN 4578-31-8 CAPLUS  
CN 5'-Adenylic acid, sodium salt (1:2) (CA INDEX NAME)

Absolute stereochemistry.



RN 129499-78-1 CAPLUS  
CN L-Ascorbic acid, 2-O-α-D-glucopyranosyl- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L64 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2004:934139 CAPLUS [Full-text](#)  
DOCUMENT NUMBER: 141:400499  
TITLE: Cosmetic and pharmaceutical ion-pair delivery system based masks comprising biopolymer based films cross-linked with metal cations  
INVENTOR(S): Gupta, Shyam K.  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 9 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English



FAMILY ACC. NUM. COUNT: 2

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040219124	A1	20041104	US 2003-249701	20030501
US 20060198805	A1	20060907	US 2005-164709	20051202
PRIORITY APPLN. INFO.:			US 2003-249701	A2 20030501

ED Entered STN: 06 Nov 2004

AB The present invention discloses a novel ion-pair delivery system based mask compns. for face, hair, skin, and body applications. These compns. come off from the site of their application essentially in one piece with the appearance, for example, of a piece of sea-weed or a continuous film. These mask compns. are suitable for a variety of delivery system methods, such as peel-off mask, moisturizing mask, exfoliating mask, prosthetic mask, soaking mask, depilatory mask, rub-off mask, two-phase mask, two-compartment mask, heat-releasing mask, and such. These mask compns. are made from the biopolymer based films that are cross-linked with divalent or trivalent metal cations. During the crosslinking process, such divalent and trivalent metal cations may also act as release agents for other face, hair, skin, and body beneficial compns. in their enhanced bioavailable forms by an ion-pair activation mechanism.

IC ICM A61K007-06

INCL 424070130

CC 62-4 (Essential Oils and Cosmetics)

ST cosmetic pharmaceutical ion pair delivery system mask; mask  
biopolymer film crosslinked metal cation skin care

IT Seawater

(Dead sea, salt from; cosmetic and pharmaceutical ion-pair  
delivery system based masks comprising biopolymer based films  
cross-linked with metal cations)

IT Zingiber officinale

(Root; cosmetic and pharmaceutical ion-pair delivery system  
based masks comprising plant exts. and cosmetic and  
therapeutic uses thereof)

IT Skin, disease

(age-spot, reduction of; cosmetic and pharmaceutical ion-pair  
delivery system based masks comprising plant exts. and cosmetic  
and therapeutic uses thereof)

IT Skin, disease

(aging, wrinkles; cosmetic and pharmaceutical ion-pair  
delivery system based masks comprising plant exts. and cosmetic  
and therapeutic uses thereof)

IT Surfactants

(amphoteric; cosmetic and pharmaceutical ion-pair delivery  
system based masks comprising plant exts. and cosmetic and  
therapeutic uses thereof)

IT Surfactants

(anionic; cosmetic and pharmaceutical ion-pair delivery  
system based masks comprising plant exts. and cosmetic and  
therapeutic uses thereof)

IT Pinus

(bark; cosmetic and pharmaceutical ion-pair delivery system  
based masks comprising plant exts. and cosmetic and  
therapeutic uses thereof)

IT Spheres

(beads; cosmetic and pharmaceutical ion-pair delivery system  
based masks comprising plant exts. and cosmetic and  
therapeutic uses thereof)

IT Tea products

- (beverages, green; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Coloring
  - (body; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Surfactants
  - (cationic; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Skin
  - (cellulite; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Cosmetics
  - (cleansing; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Solutions
  - (clear; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Lipoproteins
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (complexes; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Hair preparations
  - (conditioners; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Anesthetics
  - Coloring materials
  - Crithmum
  - Foeniculum vulgare
  - Pelvetia
    - (cosmetic and pharmaceutical ion-pair delivery system based masks comprising biopolymer based films cross-linked with metal cations)
- IT Carotenes, biological studies
  - Cocoa butter
  - Kaolin, biological studies
  - Petrolatum
  - Phenolic resins, biological studies
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
  - (cosmetic and pharmaceutical ion-pair delivery system based masks comprising biopolymer based films cross-linked with metal cations)
- IT Acne
  - Aesculus hippocastanum
  - Alaria (seaweed)
  - Alteromonas
  - Ammi visnaga
  - Anacystis
  - Analgesics
  - Andrographis paniculata
  - Anti-inflammatory agents
  - Antimicrobial agents
  - Antioxidants

Arctostaphylos uva-ursi  
Arnica montana  
Aspergillus oryzae  
Berry  
Boswellia  
Boswellia serrata  
Broussonetia papyrifera  
Calendula officinalis  
Centella asiatica  
Ceramium  
Chlorella  
Chondrus  
Citrus sinensis  
Codium  
Colloids  
Corallina  
Cordia schomburgkii  
Corynanthe johimbe  
Crosslinking  
Curcuma longa  
Eisenia (seaweed)  
Emblica  
Enteromorpha  
Filipendula ulmaria  
Fucus  
Fungicides  
Garcinia  
Garcinia cambogia  
Garcinia mangostana  
Gelidium  
Glycyrrhiza glabra  
Gochnatia blanchetiana  
Gymnema sylvestre  
Haematococcus  
Hair  
Hedera helix  
Hibiscus furcellatus  
Humectants  
Hypericum perforatum  
Hypnea  
Kaempferia galanga  
Laminaria  
Leukocyte  
Lycopersicon esculentum  
Macrocytis  
Mangifera indica  
Maprounea guianensis  
Marisa  
Melilotus officinalis  
Microemulsions  
Mitracarpus scaber  
Monostroma  
Olea europaea  
Orange  
Orthosiphon  
Palmaria  
Panax  
Panax ginseng  
Perfumes  
Phaeodactylum

Phaseolus vulgaris  
 Phyllanthus emblica  
 Plankton  
 Plectranthus barbatus  
 Polygonum cuspidatum  
 Porphyra  
 Potentilla erecta  
 Preservatives  
 Punica granatum  
 Randia armata  
 Rhodophyta  
 Rosmarinus officinalis  
 Rumex crispus  
 Rumex occidentalis  
 Ruscus aculeatus  
 Salvia officinalis  
 Sargassum  
 Seaweed  
 Seed  
 Siegesbeckia orientalis  
 Solubilizers  
 Spirulina  
 Spondias mombin  
 Suspensions  
 Tagetes patula  
 Tephrosia  
 Terminalia sericea  
 Thermus  
 Trigonella foenum-graecum  
 Ulva lactuca  
 Undaria  
 Vaccinium myrtillus  
 Vasoconstrictors  
 Vasodilators  
 Waltheria indica  
 (cosmetic and pharmaceutical ion-pair delivery system based  
 masks comprising plant exts. and cosmetic and therapeutic  
 uses thereof)  
 IT Biopolymers  
 Clays, biological studies  
 Collagens, biological studies  
 Gelatins, biological studies  
 Hormones, animal, biological studies  
 Mica-group minerals, biological studies  
 Minerals, biological studies  
 Peptides, biological studies  
 Polymers, biological studies  
 Polysiloxanes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (cosmetic and pharmaceutical ion-pair delivery system based  
 masks comprising plant exts. and cosmetic and therapeutic  
 uses thereof)  
 IT Infection  
 (cutaneous; cosmetic and pharmaceutical ion-pair delivery  
 system based masks comprising plant exts. and cosmetic and  
 therapeutic uses thereof)  
 IT Cosmetics  
 (emollients; cosmetic and pharmaceutical ion-pair delivery  
 system based masks comprising plant exts. and cosmetic and  
 therapeutic uses thereof)

- IT Fats and Glyceridic oils, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (excess topical fat reduction; cosmetic and pharmaceutical  
 ion-pair delivery system based masks comprising plant exts. and  
 cosmetic and therapeutic uses thereof)
- IT Skin  
 (exfoliating; cosmetic and pharmaceutical ion-pair delivery  
 system based masks comprising plant exts. and cosmetic and  
 therapeutic uses thereof)
- IT Algae  
 (extract; cosmetic and pharmaceutical ion-pair delivery system  
 based masks comprising plant exts. and cosmetic and  
 therapeutic uses thereof)
- IT Embryophyta  
 Plants  
 (exts.; cosmetic and pharmaceutical ion-pair delivery system  
 based masks comprising plant exts. and cosmetic and  
 therapeutic uses thereof)
- IT Head and Neck  
 (face; cosmetic and pharmaceutical ion-pair delivery system  
 based masks comprising plant exts. and cosmetic and  
 therapeutic uses thereof)
- IT Plantago psyllium  
 (husk; cosmetic and pharmaceutical ion-pair delivery system  
 based masks comprising plant exts. and cosmetic and  
 therapeutic uses thereof)
- IT Carboxylic acids, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hydroxy, poly; cosmetic and pharmaceutical ion-pair delivery  
 system based masks comprising biopolymer based films cross-linked with  
 metal cations)
- IT Carboxylic acids, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hydroxy; cosmetic and pharmaceutical ion-pair delivery  
 system based masks comprising plant exts. and cosmetic and  
 therapeutic uses thereof)
- IT Skin, disease  
 (infection; cosmetic and pharmaceutical ion-pair delivery  
 system based masks comprising plant exts. and cosmetic and  
 therapeutic uses thereof)
- IT Skin, disease  
 (lesion; cosmetic and pharmaceutical ion-pair delivery system  
 based masks comprising plant exts. and cosmetic and  
 therapeutic uses thereof)
- IT Coating materials  
 (masking; cosmetic and pharmaceutical ion-pair delivery  
 system based masks comprising plant exts. and cosmetic and  
 therapeutic uses thereof)
- IT Circulation  
 (microcirculation, disorder, improvement of; cosmetic and  
 pharmaceutical ion-pair delivery system based masks comprising plant  
 exts. and cosmetic and therapeutic uses thereof)
- IT Cosmetics  
 (moisturizers; cosmetic and pharmaceutical ion-pair delivery  
 system based masks comprising plant exts. and cosmetic and  
 therapeutic uses thereof)
- IT Surfactants  
 (nonionic; cosmetic and pharmaceutical ion-pair delivery  
 system based masks comprising plant exts. and cosmetic and  
 therapeutic uses thereof)

- IT Resins  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oleoresins, capsicum; cosmetic and pharmaceutical ion-pair delivery system based masks comprising biopolymer based films cross-linked with metal cations)
- IT Luffa  
(particle; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Skin, disease  
(pimples; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Sulfonic acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(poly; cosmetic and pharmaceutical ion-pair delivery system based masks comprising biopolymer based films cross-linked with metal cations)
- IT Metals, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyvalent; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT UV A radiation  
UV B radiation  
(protection; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Vitamins  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(provitamin; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Glycyrrhiza  
(root; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Skin, disease  
(rosacea; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Cola (plant)  
Vitis vinifera  
(seed; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Nut (seed)  
(shell, broken seed; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Cosmetics  
(skin-lightening, brightening agents; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Permeation enhancers  
(skin; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Skin, disease  
(spider vein; cosmetic and pharmaceutical ion-pair delivery

- system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Skin, disease  
(stretch mark, reduction of; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Nanoparticles  
(suspensions, emulsions; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Elastins  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(synthesis booster; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Hibiscus sabdariffa  
(tea; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Cations  
(trivalent, divalent; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Emulsions  
(water and oil; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Camellia sinensis  
(white; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT Surfactants  
(zwitterionic; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT 9002-88-4, Polyethylene  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(ball; cosmetic and pharmaceutical ion-pair delivery system based masks comprising plant exts. and cosmetic and therapeutic uses thereof)
- IT 50-21-5, Lactic acid, biological studies 50-81-7,  
Ascorbic acid, biological studies 50-81-7D,  
Ascorbic acid, DNA conjugates 51-67-2, Tyramine 53-41-8,  
Androsterone 53-43-0, Dehydroepiandrosterone 56-81-5, Glycerin,  
biological studies 57-13-6, Urea, biological studies 57-83-0,  
Progesterone, biological studies 58-22-0, Testosterone 58-85-5, Biotin  
59-30-3, Folic Acid, biological studies 59-67-6D, Niacin, Esters  
63-05-8, Androstenedione 69-72-7, Salicylic acid, biological studies  
70-18-8, Glutathione, biological studies 73-31-4, Melatonin 77-52-1,  
Ursolic acid 77-92-9, Citric acid, biological studies 79-14-1,  
Glycolic acid, biological studies 83-72-7, Lawsone 90-64-2, Mandelic  
acid 93-60-7, Methyl Nicotinate 94-44-0, Benzyl Nicotinate 94-62-2,  
Piperine 97-59-6, Allantoin 100-51-6, Benzyl Alcohol, biological  
studies 104-14-3, Octopamine 104-28-9, Cinoxate 117-39-5, Quercetin  
118-56-9, Homosalate 118-60-5 122-99-6, Phenoxyethanol 123-31-9,  
Hydroquinone, biological studies 127-40-2, Lutein 131-57-7,  
Benzophenone-3 134-09-8, Menthyl anthranilate 136-44-7 145-13-1,  
Pregnenolone 146-48-5, Yohimbine 150-13-0, PABA 153-18-4, Rutin  
299-28-5, Calcium gluconate 327-97-9, Chlorogenic acid 370-98-9,  
N-Methyltyramine 404-86-4, Capsaicin 471-34-1, Calcium carbonate,

biological studies 471-53-4, Glycyrrhetic acid 472-11-7, Ruscogenin 472-61-7, Astaxanthin 476-66-4, Ellagic acid 491-70-3, Luteolin 497-76-7, Arbutin 502-65-8, Lycopene 512-04-9, Diosgenin 520-26-3, Hesperidin 520-27-4, Diosmin 520-36-5, Apigenin 520-45-6, Dehydroacetic Acid 528-58-5, Cyanidin 531-75-9, Esculin 539-15-1, Hordenine 546-93-0, Magnesium carbonate 557-34-6, Zinc acetate 824-35-1, Calcium salicylate 1200-22-2, Lipoic acid 1303-96-4, Borax 1314-13-2, Zinc oxide, biological studies 1406-16-2, Vitamin D 1406-18-4, Vitamin E 1406-18-4D, Vitamin E, derivs. 1987-71-9 2174-16-5, Trolamine salicylate 3486-35-9, Zinc carbonate 4065-45-6, Benzophenone-4 4468-02-4, Zinc gluconate 4773-96-0, Mangiferin 5001-51-4, Calcium lactobionate 5466-77-3 5508-58-7, Andrographolide 5743-27-1, Calcium ascorbate 6147-11-1, Mangostin 6197-30-4, Octocrylene 6805-41-0, Escin 6829-55-6, Tocotrienol 6915-15-7, Malic acid 7446-70-0, Aluminum chloride, biological studies 7487-88-9, Epsom salt, biological studies 7646-85-7, Zinc chloride, biological studies 7693-13-2, Calcium citrate 7778-18-9, Calcium sulfate 7779-25-1, Magnesium citrate 7786-30-3, Magnesium chloride, biological studies 8063-16-9, Psyllium 9003-01-4, Polyacrylic acid 9003-01-4D, Polyacrylic acid, TEA derivs., 9003-03-6, Ammonium polyacrylate 9003-04-7, Sodium polyacrylate 9004-61-9, Hyaluronic acid 9005-32-7, Alginic acid 9005-32-7D, Alginic acid, TEA derivs., 9005-34-9, Ammonium alginate 9005-36-1, Potassium alginate 9005-38-3, Algin 9006-65-9, Dimethicone 10043-35-3, Boric acid, biological studies 10043-52-4, Calcium chloride, biological studies 10124-37-5, Calcium nitrate 10216-17-8, Hydroxytetronic acid 11103-57-4, Vitamin A 11138-66-2, Xanthan gum 12001-76-2, Vitamin B 12001-79-5, Vitamin K 13463-18-8, Glutathione ascorbate 13463-67-7, Titanium dioxide, biological studies 14476-25-6, Calamine 15431-40-0, Magnesium ascorbate 16589-24-5, Synephrine 16830-15-2, Asiaticoside 17463-61-5 17941-34-3, Aleuritic acid 18917-89-0, Magnesium salicylate 20283-92-5, Rosmarinic acid 21645-51-2, Aluminum hydroxide, biological studies 25608-12-2, Potassium polyacrylate 27556-18-9 27750-10-3, Hydroxycitric acid 32619-42-4, Oleuropein 36062-04-1, Tetrahydrocurcumin 55306-04-2, Sericoside 57448-83-6 59219-65-7, Darutoside 70356-09-1, Avobenzene 71010-52-1, Gellan gum 94231-35-3 121250-47-3, Conjugated linoleic acid 135322-32-6, Chitosan ascorbate 174882-69-0, Pycnogenol 211504-83-5 439666-13-4 676608-06-3 676608-07-4 676608-08-5 683226-75-7 697291-65-9, Phytosan 728945-82-2, Azaftig 736997-34-5

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(cosmetic and pharmaceutical ion-pair delivery system based masks comprising biopolymer based films cross-linked with metal cations)

IT 50-81-7D, Ascorbic acid, derivs. 53-86-1, Indomethacin 56-65-5, Adenosine triphosphate, biological studies 57-00-1, Creatine 57-60-3, Pyruvate, biological studies 58-08-2, Caffeine, biological studies 58-55-9, Theophylline, biological studies 58-61-7, Adenosine, biological studies 58-63-9, Inosine 58-64-0, Adenosine diphosphate, biological studies 60-33-3D, Linoleic acid, 9-cis, 11-trans Conjugated, biological studies 83-67-0, Theobromine 101-20-2, Triclocarban 127-17-3, Pyruvic acid, biological studies 147-81-9, Arabinose 305-84-0, Carnosine 317-34-0, Aminophylline 488-69-7, Fructose-1,6-diphosphate 491-67-8, Baicalein 501-36-0, Resveratrol 541-15-1, Carnitine 548-04-9, Hypericin 1399-64-0, Gymnemic acid 2086-83-1, Berberine 3380-34-5, Triclosan 7631-86-9, Silica, biological studies 9000-01-5, Arabic gum 9000-07-1, Carrageenan 9000-40-2, Locust bean gum 9000-69-5, Pectin 9002-18-0, Agar 9002-72-6, Somatotropin 9012-76-4, Chitosan 9072-19-9, Fucoidan 9088-07-7, Natriuretic peptide 12597-72-7, Triton (particle)



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14639-25-9 56996-83-9, Phaseolamin

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cosmetic and pharmaceutical ion-pair delivery system based  
masks comprising plant exts. and cosmetic and therapeutic  
uses thereof)

IT 50-81-7, Ascorbic acid, biological studies

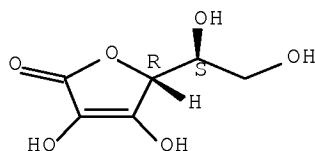
50-81-7D, Ascorbic acid, DNA conjugates

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cosmetic and pharmaceutical ion-pair delivery system based  
masks comprising biopolymer based films cross-linked with metal  
cations)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

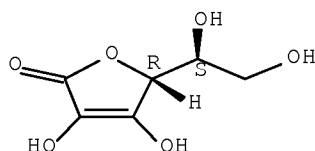
Absolute stereochemistry.



RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

Absolute stereochemistry.



RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cosmetic and pharmaceutical ion-pair delivery system based  
masks comprising plant exts. and cosmetic and therapeutic  
uses thereof)

L64 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:877940 CAPLUS Full-text

DOCUMENT NUMBER: 141:370229

TITLE: Controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compositions

INVENTOR(S): Gupta, Shyam K.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 9 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 11

PATENT INFORMATION:

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US 20060127430	A1	20060615	US 2006-307824	20060224
US 20070166339	A1	20070719	US 2007-684702	20070312
US 20070237834	A1	20071011	US 2007-760466	20070608
PRIORITY APPLN. INFO.:			US 2003-418495	A2 20030418
			US 2003-605191	A2 20030914
			US 2004-710011	A2 20040611
			US 2006-307824	A2 20060224

ED Entered STN: 22 Oct 2004

AB The present invention discloses the utilization of zeolites for controlled-release of cosmetic and pharmaceutical compns. by nano-diffusion technol. The treatment and protection of skin surface requires that certain compns. be delivered to the skin surface and allowed to remain on the skin surface for as long as possible before such ingredients are absorbed into deeper layers of skin and carried into the bloodstream. Zeolites do not absorb into the skin, which is useful for topical delivery of cosmetic and pharmaceutical compns., for example antiaging, anti-wrinkle, antioxidants, skin whitening, acne treatment, rosacea treatment, sun screens, UV blocks, anesthetics, skin soothers, anti-irritants, anti-inflammatory agents, vitamins, hormones, and such that are electronically attached to the outer surfaces of such zeolites and are released to the outer surface of skin by a diffusion-controlled thermodyn. process. An anhydrous face mask controlled-release antiaging composition with heat-releasing effect. comprises magnesium sulfate (anhydrous) 30.0, glycerin 49.0, sodium potassium aluminosilicate (Zeolite A3) 20.0, an antiaging composition (an equal weight mixture of tetrahydrocurcumin, niacinamide lactate, copper ATP complex, glutathione, and carnosine)1.0%.

IC ICM A61K031-401

ICS A61K007-00

INCL 424401000; 514423000

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

ST controlled release diffusion delivery system cosmetic  
pharmaceutical

IT Skin, disease

(aging; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)

IT Surfactants

(amphoteric; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)

IT Surfactants

(anionic; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)

IT DNA

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)

(ascorbate salts; controlled-release nano-diffusion delivery  
systems for cosmetic and pharmaceutical compns.)

IT Pinus

(bark extract; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)

IT Soaps

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(bars; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)

IT Drug delivery systems

(beads; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)

IT Surfactants

(cationic; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)

IT Skin

- (cellulite; controlled-release nano-diffusion delivery systems for cosmetic and pharmaceutical compns.)
- IT Cosmetics
  - (cleansing; controlled-release nano-diffusion delivery systems for cosmetic and pharmaceutical compns.)
- IT Lipoproteins
  - RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
  - (complexes; controlled-release nano-diffusion delivery systems for cosmetic and pharmaceutical compns.)
- IT Hair preparations
  - (conditioners; controlled-release nano-diffusion delivery systems for cosmetic and pharmaceutical compns.)
- IT Acne
  - Analgesics
  - Anesthetics
  - Anti-inflammatory agents
  - Antimicrobial agents
  - Antioxidants
  - Colloids
  - Colognes
  - Cordia schomburgkii
  - Dyes
  - Fungicides
  - Gouania blanchetiana
  - Hibiscus furcellatus
  - Humectants
  - Olea europaea
  - Perfumes
  - Permeation enhancers
  - Preservatives
  - Randia armata
  - Shampoos
  - Solubilizers
  - Sunscreens
  - UV A radiation
  - UV B radiation
  - (controlled-release nano-diffusion delivery systems for cosmetic and pharmaceutical compns.)
- IT Aluminosilicates, biological studies
  - Carotenes, biological studies
  - Clays, biological studies
  - Cocoa butter
  - Collagens, biological studies
  - Hormones, animal, biological studies
  - Kaolin, biological studies
  - Mica-group minerals, biological studies
  - Minerals, biological studies
  - Petrolatum
  - Quaternary ammonium compounds, biological studies
  - Vitamins
  - Zeolites (synthetic), biological studies
  - RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
  - (controlled-release nano-diffusion delivery systems for cosmetic and pharmaceutical compns.)
- IT Polysiloxanes, biological studies
  - RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
  - (controlled-release nano-diffusion delivery systems for cosmetic and pharmaceutical compns.)

- IT Drug delivery systems  
(controlled-release; controlled-release nano-diffusion delivery systems  
for cosmetic and pharmaceutical compns.)
- IT Cosmetics  
(creams; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT Cosmetics  
Drug delivery systems  
(emollients; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT Cosmetics  
Drug delivery systems  
(emulsions; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT Andrographis paniculata  
Arnica montana  
Calendula officinalis  
Centella asiatica  
Citrus sinensis  
Curcuma longa  
Filipendula ulmaria  
Garcinia  
Garcinia cambogia  
Garcinia mangostana  
Haematococcus  
Hedera  
Hedera helix  
Hypericum perforatum  
Leukocyte  
Lycopersicon esculentum  
Mangifera indica  
Orange  
Orthosiphon stamineus  
Panax ginseng  
Phaseolus vulgaris  
Plectranthus barbatus  
Polygonum cuspidatum  
Punica granatum  
Rosmarinus officinalis  
Ruscus aculeatus  
Salvia officinalis  
Tagetes patula  
Trigonella foenum-graecum  
Vaccinium myrtillus  
(extract, controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT Ammi visnaga  
Arctostaphylos uva-ursi  
Aspergillus oryzae  
Boswellia serrata  
Broussonetia kazinoki  
Camellia sinensis  
Corynanthe johimbe  
Ecklonia cava  
Emblica  
Glycyrrhiza glabra  
Kaempferia galanga  
Maprounea guianensis  
Melilotus officinalis  
Mitracarpus scaber

*Phyllanthus emblica*  
*Potentilla erecta*  
*Rumex crispus*  
*Rumex occidentalis*  
*Siegesbeckia orientalis*  
*Spondias mombin*  
*Terminalia sericea*  
*Vitis vinifera*  
*Zingiber officinale*  
 (extract; controlled-release nano-diffusion delivery systems for  
 cosmetic and pharmaceutical compns.)  
 IT *Waltheria indica*  
 (exts.; controlled-release nano-diffusion delivery systems for  
 cosmetic and pharmaceutical compns.)  
 IT Cosmetics  
 (face packs; controlled-release nano-diffusion delivery systems for  
 cosmetic and pharmaceutical compns.)  
 IT Cosmetics  
 Drug delivery systems  
 (gels; controlled-release nano-diffusion delivery systems for  
 cosmetic and pharmaceutical compns.)  
 IT *Plantago psyllium*  
 (husk; controlled-release nano-diffusion delivery systems for  
 cosmetic and pharmaceutical compns.)  
 IT Carboxylic acids, biological studies  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (hydroxy; controlled-release nano-diffusion delivery systems for  
 cosmetic and pharmaceutical compns.)  
 IT Cosmetics  
 (lipsticks; controlled-release nano-diffusion delivery systems for  
 cosmetic and pharmaceutical compns.)  
 IT Soaps  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (liquid; controlled-release nano-diffusion delivery systems for  
 cosmetic and pharmaceutical compns.)  
 IT Cosmetics  
 Drug delivery systems  
 (lotions; controlled-release nano-diffusion delivery systems for  
 cosmetic and pharmaceutical compns.)  
 IT Circulation  
 (microcirculation, blood; controlled-release nano-diffusion delivery  
 systems for cosmetic and pharmaceutical compns.)  
 IT Drug delivery systems  
 (microemulsions; controlled-release nano-diffusion delivery systems for  
 cosmetic and pharmaceutical compns.)  
 IT Cosmetics  
 (moisturizers; controlled-release nano-diffusion delivery systems for  
 cosmetic and pharmaceutical compns.)  
 IT Drug delivery systems  
 (nanoparticles; controlled-release nano-diffusion delivery systems for  
 cosmetic and pharmaceutical compns.)  
 IT Surfactants  
 (nonionic; controlled-release nano-diffusion delivery systems for  
 cosmetic and pharmaceutical compns.)  
 IT Bath preparations  
 (oils; controlled-release nano-diffusion delivery systems for  
 cosmetic and pharmaceutical compns.)  
 IT Drug delivery systems  
 (ointments, creams; controlled-release nano-diffusion delivery systems

- for cosmetic and pharmaceutical compns.)
- IT Sulfonic acids, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(poly; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT Carboxylic acids, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(polycarboxylic; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT Phenols, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(polyphenols, nonpolymeric; controlled-release nano-diffusion delivery  
systems for cosmetic and pharmaceutical compns.)
- IT Adipose tissue  
(reduction; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT Skin, disease  
(rosacea; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT Cola (plant)  
(seed extract; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT Cosmetics  
(skin-lightening; controlled-release nano-diffusion delivery  
systems for cosmetic and pharmaceutical compns.)
- IT Drug delivery systems  
(sprays; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT Cosmetics  
(sticks; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT Drug delivery systems  
(suspensions; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT Elastins  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(synthesis stimulants; controlled-release nano-diffusion delivery  
systems for cosmetic and pharmaceutical compns.)
- IT Vein, disease  
(varicose; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT Cosmetics  
(wrinkle-preventing; controlled-release nano-diffusion delivery systems  
for cosmetic and pharmaceutical compns.)
- IT Surfactants  
(zwitterionic; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT 9002-88-4, Polyethylene  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(balls; controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)
- IT 9004-70-0, Collodion  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)

IT 50-21-5, Lactic acid, biological studies 50-81-7, Ascorbic acid, biological studies 50-81-7D, Ascorbic acid, derivs. 51-67-2, Tyramine 53-41-8, Androsterone 53-43-0, DHEA 53-86-1, Indomethacin 56-65-5, Adenosine triphosphate, biological studies 56-81-5, Glycerin, biological studies 57-00-1, Creatine 57-13-6, Urea, biological studies 57-83-0, Progesterone, biological studies 58-08-2, Caffeine, biological studies 58-22-0, Testosterone 58-55-9, Theophylline, biological studies 58-61-7, Adenosine, biological studies 58-63-9, Inosine 58-64-0, Adenosine diphosphate, biological studies 58-85-5, Biotin 59-30-3, Folic Acid, biological studies 63-05-8, Androstenedione 69-72-7, Salicylic acid, biological studies 70-18-8, Glutathione, biological studies 73-31-4, Melatonin 77-52-1, Ursolic acid 77-92-9, Citric acid, biological studies 79-14-1, Glycolic acid, biological studies 83-67-0, Theobromine 83-72-7, Lawsone 90-64-2, Mandelic acid 94-62-2, Piperine 97-59-6, Allantoin 98-92-0, Niacinamide 98-98-6D, Picolinic acid, chromium complexes 100-51-6, Benzyl Alcohol, biological studies 101-20-2, Triclocarban 104-14-3, Octopamine 104-28-9, Cinoxate 117-39-5, Quercetin 118-56-9, Homosalate 118-60-5, 2-Ethylhexyl salicylate 122-99-6, Phenoxyethanol 123-31-9, Hydroquinone, biological studies 123-31-9D, Hydroquinone, derivs. 127-17-3, Pyruvic acid, biological studies 127-17-3D, salts 127-40-2, Lutein 131-57-7, Benzophenone-3 134-09-8, Menthyl anthranilate 145-13-1, Pregnenolone 147-81-9, Arabinose 150-13-0, PABA 153-18-4, Rutin 302-79-4, Retinoic acid 305-84-0, Carnosine 317-34-0, Aminophylline) 327-97-9, Chlorogenic acid 370-98-9, N-Methyltyramine 471-53-4, Glycyrrhetic acid 476-66-4, Ellagic acid 477-32-7, Visnadine 488-69-7, Fructose-1,6-diphosphate 491-67-8, Baicalein 491-70-3, Luteolin 497-76-7, Arbutin 501-36-0, Resveratrol 502-65-8, Lycopene 520-26-3, Hesperidin 520-27-4, Diosmin 520-36-5, Apigenin 520-45-6, Dehydroacetic Acid 528-58-5, Cyanidin 539-15-1, Hordenine 541-15-1, L-Carnitine 557-34-6, Zinc acetate 602-41-5, Thiocolchicoside 1200-22-2,  $\alpha$ -Lipoic acid 1314-13-2, Zinc oxide, biological studies 1399-64-0, Gymnemic acid 1406-16-2, Vitamin D 1406-18-4, Vitamin E 1987-71-9, Nicotinamide ascorbate 2086-83-1, Berberine 2174-16-5, Trolamine salicylate 2420-56-6 2540-56-9, 9-cis-11-trans-Linoleic acid 3380-34-5, Triclosan 3486-35-9, Zinc carbonate 4065-45-6, Benzophenone-4 4773-96-0, Mangiferin 5466-77-3, 2-Ethylhexyl p-methoxycinnamate 5508-58-7, Andrographolide ( 6147-11-1, Mangostin 6197-30-4, Octocrylene 6829-55-6, Tocotrienol 6915-15-7, Malic acid 7439-96-5, Manganese, biological studies 7440-47-3D, Chromium, picolinate complexes 7440-50-8, Copper, biological studies 7440-66-6, Zinc, biological studies 7631-86-9, Silica, biological studies 8011-96-9, Calamine 9002-72-6, Somatotropin 9004-61-9, Hyaluronic acid 9006-65-9, Dimethicone 9012-76-4, Chitosan 9088-07-7, Natriuretic peptide 10216-17-8, Hydroxytetronic acid 11103-57-4, Vitamin A 12001-76-2, Vitamin B 12001-79-5, Vitamin K 13106-41-7 13463-18-8, Glutathione ascorbate 16589-24-5, Synephrine 16830-15-2, Asiaticoside 17463-61-5 17941-34-3, Aleuritic acid 20283-92-5, Rosmarinic acid 27750-10-3, Hydroxycitric acid 32619-42-4, Oleuropein 36062-04-1, Tetrahydrocurcumin 55306-04-2, Sericoside 56996-83-9, Phaseolamin 57448-83-6 59219-65-7, Darutoside 70356-09-1, Avobenzone 94231-35-3 120718-57-2 121250-47-3, Conjugated linoleic acid 125913-31-7, Ascorbyl phosphate 135322-32-6, Chitosan ascorbate 174882-69-0, Pycnogenol 211504-83-5 439666-13-4 676608-06-3 676608-07-4, Chondroitin ascorbate 676608-08-5, Carnosine ascorbate 683226-75-7 697291-65-9, Phytosan 728945-82-2, Azafitig

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);

## USES (Uses)

(controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)

IT 50-81-7, Ascorbic acid, biological studies

50-81-7D, Ascorbic acid, derivs.

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);

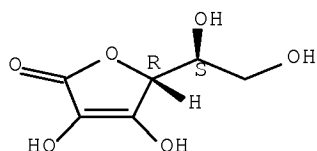
## USES (Uses)

(controlled-release nano-diffusion delivery systems for  
cosmetic and pharmaceutical compns.)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

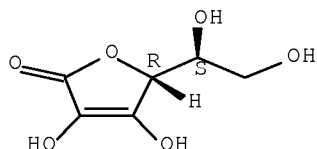
Absolute stereochemistry.



RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

Absolute stereochemistry.



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ACCESSION NUMBER: 2004:681187 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 141:194959

TITLE: Skin firming anti-aging  
cosmetic compositions

INVENTOR(S): Gupta, Shyam K.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 12 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 20040161435	A1	20040819	US 2003-248753	20030214
PRIORITY APPLN. INFO.:			US 2003-248753	20030214

ED Entered STN: 20 Aug 2004

AB Cosmetic mask compns. suitable for face, neck, chin or body applications are disclosed. These compns. synergistically combine at least 1 skin beneficial cosmetic or pharmaceutical composition with at least one composition to promote excess fat reduction, cellulite control, or muscle toning benefits.



The mask composition also contains at least one binder composition that binds with other beneficial ingredients by electrostatic, atomic, or ionic charges to synergistically enhance their topical site-specific benefits. These mask compns. are suitable for a variety of delivery system methods that include, e.g., peel-off mask, leave-in mask, moisturizing mask, and exfoliating mask. Thua, a facial mask composition contained chitosan 5.0, lactic acid 5.0, glycerin 18.0, water 65.8, hydroxycitric acid 5.0, niacinamide 0.5, glutathione, and preservatives 0.5%.

IC ICM A61K007-42  
ICS A61K007-06; A61K007-00; A61K035-78  
INCL 424401000; 424074000; 424725000; 424059000  
CC 62-4 (Essential Oils and Cosmetics)  
Section cross-reference(s): 63  
ST skin firming antiaging cosmetic  
IT Skin, disease  
(aging; skin firming anti-aging cosmetic compns.)  
IT Surfactants  
(amphoteric; skin firming anti-aging cosmetic compns.)  
IT Surfactants  
(anionic; skin firming anti-aging cosmetic compns.)  
IT Cosmetics  
(antiaging; skin firming anti-aging cosmetic compns.)  
IT Cosmetics  
(balms; skin firming anti-aging cosmetic compns.)  
IT Pinus  
(bark exts.; skin firming anti-aging cosmetic compns.)  
IT Soaps  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(bars; skin firming anti-aging cosmetic compns.)  
IT Oryza sativa  
(bran, husk; skin firming anti-aging cosmetic compns.)  
IT Surfactants  
(cationic; skin firming anti-aging cosmetic compns.)  
IT Skin  
(cellulite; skin firming anti-aging cosmetic compns.)  
IT Cosmetics  
(cleansing; skin firming anti-aging cosmetic compns.)  
IT Lipoproteins  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(complexes; skin firming anti-aging cosmetic compns.)  
IT Hair preparations  
(conditioners; skin firming anti-aging cosmetic compns.)  
IT Cosmetics  
(creams; skin firming anti-aging cosmetic compns.)

IT Infection  
(cutaneous; skin firming anti-aging  
cosmetic compns.)

IT Cosmetics  
(depilatories; skin firming anti-aging  
cosmetic compns.)

IT Cyclosiloxanes  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(di-Me; skin firming anti-aging cosmetic  
compns.)

IT Cosmetics  
Drug delivery systems  
(emollients; skin firming anti-aging  
cosmetic compns.)

IT Cosmetics  
Drug delivery systems  
(emulsions; skin firming anti-aging  
cosmetic compns.)

IT Aesculus  
Ammi visnaga  
Andrographis paniculata  
Arnica montana  
Boswellia serrata  
Calendula officinalis  
Capsicum  
Centella asiatica  
Chamomile  
Citrus sinensis  
Cola (plant)  
Curcuma longa  
Emblica  
Embryophyta  
Filipendula ulmaria  
Garcinia cambogia  
Garcinia mangostana  
Gymnema sylvestre  
Haematococcus  
Hedera helix  
Hibiscus sabdariffa  
Hypericum perforatum  
Laminaria  
Lycopersicon esculentum  
Mangifera indica  
Melilotus officinalis  
Olea europaea  
Orange  
Orthosiphon stamineus  
Panax  
Panax ginseng  
Phaseolus vulgaris  
Phyllanthus emblica  
Plants  
Plectranthus barbatus  
Polygonum cuspidatum  
Potentilla erecta  
Punica granatum  
Rosmarinus officinalis  
Ruscus aculeatus  
Salvia officinalis

Siegesbeckia orientalis  
 Tagetes patula  
 Tephrosia  
 Terminalia sericea  
 Vaccinium myrtillus  
 Vitis vinifera  
 Zingiber officinale  
     (exts.; skin firming anti-aging cosmetic  
     compns.)  
 IT Medical goods  
     (face masks; skin firming anti-aging  
     cosmetic compns.)  
 IT Cosmetics  
     (face packs; skin firming anti-aging  
     cosmetic compns.)  
 IT Trigonella foenum-graecum  
     (fibers; skin firming anti-aging cosmetic  
     compns.)  
 IT Glycine max  
     (flour and meal; skin firming anti-aging  
     cosmetic compns.)  
 IT Avena sativa  
     (flour; skin firming anti-aging cosmetic  
     compns.)  
 IT Cosmetics  
     (gels; skin firming anti-aging cosmetic  
     compns.)  
 IT Tea products  
     (green, exts.; skin firming anti-aging  
     cosmetic compns.)  
 IT Carboxylic acids, biological studies  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
     (hydroxy; skin firming anti-aging cosmetic  
     compns.)  
 IT Skin, disease  
     (infection; skin firming anti-aging  
     cosmetic compns.)  
 IT Soaps  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
     (liquid; skin firming anti-aging cosmetic  
     compns.)  
 IT Cosmetics  
     (lotions; skin firming anti-aging cosmetic  
     compns.)  
 IT Cosmetics  
 Drug delivery systems  
     (microemulsions; skin firming anti-aging  
     cosmetic compns.)  
 IT Proteins  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
     (milk; skin firming anti-aging cosmetic  
     compns.)  
 IT Cosmetics  
     (moisturizers; skin firming anti-aging  
     cosmetic compns.)  
 IT Drug delivery systems  
     (nanoparticles; skin firming anti-aging

cosmetic compns.)

IT Surfactants  
(nonionic; skin firming anti-aging cosmetic compns.)

IT Flours and Meals  
(oat; skin firming anti-aging cosmetic compns.)

IT Bath preparations  
(oils; skin firming anti-aging cosmetic compns.)

IT Phenols, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
USES (Uses)  
(polyphenols, nonpolymeric; skin firming anti-aging cosmetic compns.)

IT Egg  
(powders; skin firming anti-aging cosmetic compns.)

IT Triticum aestivum  
(proteins of; skin firming anti-aging cosmetic compns.)

IT Bran  
(rice, husk; skin firming anti-aging cosmetic compns.)

IT Skin, disease  
(rosacea; skin firming anti-aging cosmetic compns.)

IT Acne  
Analgesics  
Anesthetics  
Anti-inflammatory agents  
Antimicrobial agents  
Antioxidants  
Avena sativa  
Circulation  
Colloids  
Colognes  
Cotton fibers  
Dyes  
Fungicides  
Gums and Mucilages  
Humectants  
Inflammation  
Kaempferia galanga  
Milk  
Pain  
Perfumes  
Permeation enhancers  
Photoprotectants  
Preservatives  
Prosthetic materials and Prosthetics  
Shampoos  
Silk  
Skin  
Solubilizers  
Sunscreens  
Surfactants  
Vasoconstrictors  
Vasodilators  
Wheat flour

- (skin firming anti-aging cosmetic compns.)
- IT Bentonite, biological studies
- Carbohydrates, biological studies
- Carotenes, biological studies
- Caseins, biological studies
- Clays, biological studies
- Cocoa butter
- Collagens, biological studies
- Elastins
- Hormones, animal, biological studies
- Kaolin, biological studies
- Mica-group minerals, biological studies
- Minerals, biological studies
- Petrolatum
- Polysiloxanes, biological studies
- Quaternary ammonium compounds, biological studies
- Tocopherols
- Vitamins
- Zeolites (synthetic), biological studies
- RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
- USES (Uses)
- (skin firming anti-aging cosmetic compns.)
- IT Cosmetics
- (skin-lightening; skin firming anti-aging cosmetic compns.)
- IT Flours and Meals
- (soybean; skin firming anti-aging cosmetic compns.)
- IT Proteins
- RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
- USES (Uses)
- (soybean; skin firming anti-aging cosmetic compns.)
- IT Cosmetics
- (sticks; skin firming anti-aging cosmetic compns.)
- IT Drug delivery systems
- (suspensions; skin firming anti-aging cosmetic compns.)
- IT Drug delivery systems
- (topical; skin firming anti-aging cosmetic compns.)
- IT Vein, disease
- (varicose; skin firming anti-aging cosmetic compns.)
- IT Vaccinium
- (vulgaris exts.; skin firming anti-aging cosmetic compns.)
- IT Surfactants
- (zwitterionic; skin firming anti-aging cosmetic compns.)
- IT 131-57-7, Benzophenone-3 4065-45-6, Benzophenone-4
- RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
- USES (Uses)
- (exts.; skin firming anti-aging cosmetic compns.)
- IT 50-21-5, Lactic acid, biological studies 50-81-7,
- Ascorbic acid, biological studies 50-81-7D,

Ascorbic acid, derivs. 51-67-2, Tyramine 53-41-8, Androsterone 53-43-0, DHEA 53-86-1, Indomethacin 56-65-5, Adenosine triphosphate, biological studies 56-81-5, Glycerin, biological studies 57-00-1, Creatine 57-13-6, Urea, biological studies 57-83-0, Progesterone, biological studies 58-08-2, Caffeine, biological studies 58-22-0, Testosterone 58-55-9, Theophylline, biological studies 58-61-7, Adenosine, biological studies 58-63-9, Inosine 58-64-0, Adenosine diphosphate, biological studies 58-85-5, Biotin 58-95-7, Vitamin E acetate 59-30-3, Folic acid, biological studies 59-67-6, Niacin, biological studies 59-67-6D, Niacin, esters 63-05-8, Androstenedione 68-26-8, Vitamin A 69-72-7, Salicylic acid, biological studies 70-18-8, Glutathione, biological studies 73-31-4, Melatonin 77-52-1, Ursolic acid 77-92-9, Citric acid, biological studies 79-14-1, Glycolic acid, biological studies 79-81-2, Vitamin A palmitate 83-67-0, Theobromine 83-72-7, Lawsone 90-64-2, Mandelic acid 93-60-7, Methyl nicotinate 94-44-0, Benzyl nicotinate 94-62-2, Piperine 97-59-6, Allantoin 98-98-6D, Picolinic acid, complex with chromium 100-51-6, Benzyl alcohol, biological studies 101-20-2, Triclocarban 104-14-3, Octopamine 104-28-9, Cinoxate 117-39-5, Quercetin 118-56-9, Homosalate 118-60-5, 2-Ethylhexyl salicylate 122-99-6, Phenoxyethanol 127-17-3, Pyruvic acid, biological studies 127-17-3D, Pyruvic acid, salts 127-40-2, Lutein 134-09-8, Menthyl anthranilate 145-13-1, Pregnenolone 146-48-5, Yohimbine 147-81-9, Arabinose 150-13-0, PABA 153-18-4, Rutin 305-84-0, Carnosine 317-34-0, Aminophylline 327-97-9, Chlorogenic acid 370-98-9, N-Methyltyramine 404-86-4, Capsaicin 471-53-4, Glycyrrhetic acid 472-61-7, Astaxanthin 476-66-4, Ellagic acid 488-69-7, Fructose-1,6-diphosphate 491-67-8, Baicalein 491-70-3, Luteolin 501-36-0, Resveratrol 502-65-8, Lycopene 512-04-9, Diosgenin 520-26-3, Hesperidin 520-27-4, Diosmin 520-36-5, Apigenin 520-45-6, Dehydroacetic acid 528-58-5, Cyanidin 531-75-9, Esculin 539-15-1, Hordenine 541-15-1, L-Carnitine 548-04-9, Hypericin 1200-22-2,  $\alpha$ -Lipoic acid 1314-13-2, Zinc oxide (ZnO), biological studies 1344-28-1, Alumina, biological studies 1399-64-0, Gymnemic acid 1406-16-2, Vitamin D 1406-18-4, Vitamin E 1987-71-9 2086-83-1, Berberine 2174-16-5, Trolamine salicylate 2420-56-6, 10-trans,12-cis-Linoleic acid 2540-56-9, 9-cis,11-trans-Linoleic acid 3380-34-5, Triclosan 3486-35-9, Zinc carbonate 4773-96-0, Mangiferin 5508-58-7, Andrographolide 6147-11-1, Mangostin 6197-30-4, Octocrylene 6205-14-7, Hydroxycitric acid 6205-14-7D, Hydroxycitric acid, salts 6805-41-0, Escin 6829-55-6, Tocotrienol 6915-15-7, Malic acid 7440-47-3D, Chromium, complex with picolinic acid 7631-86-9, Silica, biological studies 8011-96-9, Calamine 8063-16-9, Psyllium 9000-01-5, Gum arabic 9000-07-1, Carrageenan 9000-40-2, Locust bean gum 9000-69-5, Pectin 9002-18-0, Agar 9002-72-6, Somatotropin 9002-88-4, Polyethylene 9004-34-6, Cellulose, biological studies 9004-34-6D, Cellulose, derivs. 9004-61-9, Hyaluronic acid 9005-25-8, Starch, biological studies 9005-25-8D, Starch, derivs. 9005-38-3, Algin 9005-80-5D, Inulin, hydrolyzed 9006-65-9, Dimethicone 9012-76-4, Chitosan 9016-00-6, Polydimethyl siloxane 9088-07-7, Natriuretic peptide 10216-17-8, Hydroxytetronic acid 11138-66-2, Xanthan gum 12001-76-2, Vitamin B 12001-79-5, Vitamin K 13106-41-7 13463-18-8, Glutathione ascorbate 13463-67-7, Titanium oxide, biological studies 16397-78-7, 2-Ethylhexyl cinnamate 16589-24-5, Synephrine 16830-15-2, Asiaticoside 17463-61-5 17941-34-3, Aleuritic acid 20283-92-5, Rosmarinic acid 29593-08-6 31692-79-2, Dimethiconol 31900-57-9, Polydimethyl siloxane 32619-42-4, Oleuropein 36062-04-1, Tetrahydrocurcumin 55306-04-2, Sericoside 56996-83-9, Phaseolamin 57448-83-6 59219-65-7, Darutoside 66575-29-9, Forskolin 70356-09-1, Avobenzene 71010-52-1, Gellan gum 94231-35-3 125913-31-7

# Jody Karol 10/523,605

135322-32-6, Chitosan ascorbate 174882-69-0, Pycnogenol  
 211504-83-5 439666-13-4 676608-06-3 676608-07-4 676608-08-5  
 683226-75-7 697291-65-9, Phytosan 728945-82-2, Azaftig  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)

(skin firming anti-aging cosmetic  
 compns.)

IT 50-81-7, Ascorbic acid, biological studies

50-81-7D, Ascorbic acid, derivs.

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);

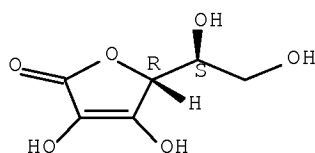
USES (Uses)

(skin firming anti-aging cosmetic  
 compns.)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

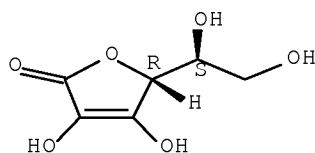
Absolute stereochemistry.



RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

Absolute stereochemistry.



L64 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:609740 CAPLUS Full-text

DOCUMENT NUMBER: 141:162091

TITLE: Topical nutraceutical compositions with selective body  
 slimming and tone firming antiaging benefits

INVENTOR(S): Gupta, Shyam K.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 13 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 20040146539	A1	20040729	US 2003-248508	20030124
PRIORITY APPLN. INFO.:			US 2003-248508	20030124
ED Entered STN:		30 Jul 2004		

AB Cosmetic or topical pharmaceutical compns. are described for external body part or organ slimming, firming, cellulite reduction, fat-reduction, and obesity control benefits that are in synergistic combination with benefits for the treatment of skin aging, skin wrinkles reduction, skin exfoliating, treatment of acne, treatment of rosacea, age-spots reduction, skin surface whitening, skin surface brightening striae distensae (stretch marks) reduction, treatment of pimples, treatment of skin infections and lesions, spider veins reduction, blood microcirculation (venous insufficiency) improvement, UVA/UVB protection of skin, and skin redness reduction These compns. thus provide multiple combinations of skin and external body part or organ enhancement benefits that can be selective and specific for external body parts and organs such as face, chin, cheeks, arms, "love handles" in abdomen area, eye lids and eye zone, neck, breasts, thighs, and hips. For example, a chitosan facial mask composition for the reduction of wrinkles and excess fat on cheeks and eyelids contained chitosan 5%, lactic acid 5%, glycerin 18%, water 65.8%, hydroxycitric acid 5%, niacinamide 0.5%, glutathione 0.2%, and preservatives 0.5%. First three components were mixed into a paste, other components were mixed sep. into a clear solution, and the paste and the solution were combined to obtain a clear gel product. The gel is applied on the face and neck and left for 10 to 30 min, then rinsed off.

IC ICM A61K007-00

INCL 424401000

CC 62-4 (Essential Oils and Cosmetics)  
Section cross-reference(s): 63

ST nutraceutical antiaging skin slimming firming cosmetic  
; topical nutraceutical skin disorder

IT Natural products, pharmaceutical  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Glycyrrhizae radix, root exts.; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT Skin, disease  
(aging, wrinkles; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT Fats and Glyceridic oils, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(almond; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT Cosmetics  
(antiaging; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT Fats and Glyceridic oils, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(apricot kernel; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT Skin  
(cellulite, lotion for reduction of; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT Cosmetics  
(cleansing; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT Fatty acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(coco, 2-sulfoethyl esters, sodium salts, sodium cocoyl isethionate, Tauranol I-78; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT Cosmetics  
(creams, antiaging; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT Aesculus  
Boswellia serrata



Garcinia cambogia  
 Kaempferia galanga  
 Phyllanthus emblica  
 Plectranthus barbatus  
 (extract; topical nutraceutical compns. with selective body slimming and  
 tone firming antiaging benefits)

IT Cosmetics  
 (face packs; topical nutraceutical compns. with selective body slimming  
 and tone firming antiaging benefits)

IT Plantago psyllium  
 (husk powder; topical nutraceutical compns. with selective body  
 slimming and tone firming antiaging benefits)

IT Carboxylic acids, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hydroxy; topical nutraceutical compns. with selective body slimming  
 and tone firming antiaging benefits)

IT Cosmetics  
 (lotions; topical nutraceutical compns. with selective body slimming  
 and tone firming antiaging benefits)

IT Circulation  
 (microcirculation, agents for improvement of; topical nutraceutical  
 compns. with selective body slimming and tone firming antiaging  
 benefits)

IT Proteins  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oat; topical nutraceutical compns. with selective body slimming and  
 tone firming antiaging benefits)

IT Natural products, pharmaceutical  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (plant, Actiplex; topical nutraceutical compns. with selective body  
 slimming and tone firming antiaging benefits)

IT Collagens, biological studies  
 Elastins  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (promotion of synthesis in skin; topical nutraceutical compns. with  
 selective body slimming and tone firming antiaging benefits)

IT Adipose tissue  
 (reduction of excess fat from cheeks and eyelids; topical nutraceutical  
 compns. with selective body slimming and tone firming antiaging  
 benefits)

IT Skin, disease  
 (rosacea, treatment for; topical nutraceutical compns. with selective  
 body slimming and tone firming antiaging benefits)

IT Cosmetics  
 (serums; topical nutraceutical compns. with selective body slimming and  
 tone firming antiaging benefits)

IT Fats and Glyceridic oils, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (sesame; topical nutraceutical compns. with selective body slimming and  
 tone firming antiaging benefits)

IT Cosmetics  
 (skin-lightening; topical nutraceutical compns. with  
 selective body slimming and tone firming antiaging benefits)

IT Natural fibers  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (soybean; topical nutraceutical compns. with selective body slimming  
 and tone firming antiaging benefits)

IT Antimicrobial agents  
 Antioxidants  
 Dietary supplements

Skin preparations (pharmaceutical)

Sunscreens

Surfactants

(topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT Hormones, animal, biological studies

Jojoba oil

Polyoxyalkylenes, biological studies

Vitamins

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT Drug delivery systems

(topical; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT Acne

(treatment for; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT 9003-01-4D, crosslinked

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(Carbomer; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT 36574-66-0D, N-coco acyl derivs.

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(Cocoamidopropyl betaine; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT 9012-76-4, Chitosan

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(Cognis Hydagen CMF; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT 9023-93-2, Acetyl-CoA carboxylase

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(inhibitors; topical nutraceutical compns. with selective body slimming and tone firming antiaging benefits)

IT 50-21-5, Lactic acid, biological studies 50-81-7, L-

Ascorbic acid, biological studies 51-67-2, Tyramine 53-43-0,

DHEA 53-86-1, Indomethacin 56-65-5, Adenosine

triphosphate, biological studies 56-81-5, Glycerin, biological

studies 57-00-1, Creatine 57-11-4, Stearic acid, biological studies

58-08-2, Caffeine, biological studies 58-55-9, Theophylline, biological

studies 58-61-7, Adenosine, biological studies 58-63-9, Inosine

58-64-0, Adenosine diphosphate, biological studies

58-95-7, Vitamin E acetate 70-18-8, Glutathione, biological studies

77-92-9, Citric acid, biological studies 79-81-2, Vitamin A palmitate

81-13-0, Panthenol 83-67-0, Theobromine 89-73-6, SHA 98-92-0,

Niacinamide 98-98-6D, Picolinic acid, chromium complexes 104-14-3,

Octopamine 123-31-9, Hydroquinone, biological studies 127-17-3,

Pyruvic acid, biological studies 147-81-9, Arabinose 151-21-3, Sodium

lauryl sulfate, biological studies 303-45-7, Gossypol 305-84-0,

Carnosine 331-39-5, 3,4-Dihydroxycinnamic acid 370-98-9,

n-Methyltyramine 472-11-7, Ruscogenin 476-66-4, Ellagic acid

488-69-7, Fructose-1,6-diphosphate 491-67-8, Baicalein 500-38-9, NDGA

531-75-9, Esculin 539-15-1, Hordenine 541-15-1, Carnitine 644-66-6,

Baeomycesic acid 1191-85-1, ETYA 1399-64-0, Gymnemic acid 1987-71-9,

Niacinamide ascorbate 2012-14-8, 9,12-Octadecadiynoic acid

5466-77-3, 2-Ethylhexyl p-methoxycinnamate 6205-14-7, Hydroxycitric acid

6805-41-0, Escin 7440-47-3D, Chromium, picolinic acid complexes

7778-18-9, Calcium sulfate 9002-72-6, Growth hormone 9006-65-9,

Dimethicone 9016-00-6, Polydimethylsiloxane 9088-07-7, Natriuretic

peptide 10597-60-1, 3,4-Dihydroxyphenylethanol 12001-79-5, Vitamin K

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13463-67-7, Titanium dioxide, biological studies 16589-24-5, Synephrine  
 25322-68-3, Polyethylene glycol 31692-79-2, Dimethiconol 31900-57-9,  
 Polydimethylsiloxane 36062-04-1, Tetrahydrocurcumin 36653-82-4, Cetyl  
 alcohol 56996-83-9, Phaseolamin 58688-54-3, 5,6-Dehydroarachidonic  
 acid 66000-40-6, 3-Amino-1-[m-(trifluoromethyl)phenyl]-2-pyrazoline  
 66575-29-9, Forskolin 66634-12-6, Niacinamide salicylate 68076-97-1  
 76353-67-8 79672-88-1 81517-87-5 84750-06-1, Arlacel 165  
 99267-16-0, Eicosatriynoic acid 101910-24-1 121250-47-3, Conjugated  
 linoleic acid 126716-54-9 145686-34-6, Cetyl dimethicone copolyol  
 146702-59-2, Tauranol WS 159806-32-3 335383-60-3, Aristoflex AVC  
 660429-97-0 660439-51-0, Actiplex 2789 660439-61-2, Jeasilc 6056  
 683226-75-7, Niacinamide lipoate 683226-76-8, Niacinamide lactate  
 728008-18-2 728008-19-3 728008-20-6 728945-82-2, Azaftig

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (topical nutraceutical compns. with selective body slimming and tone  
 firming antiaging benefits)

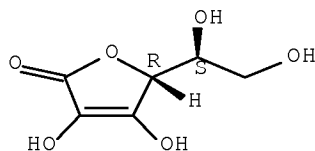
IT 50-81-7, L-Ascorbic acid, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (topical nutraceutical compns. with selective body slimming and tone  
 firming antiaging benefits)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

Absolute stereochemistry.



L64 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:451489 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 141:28225

TITLE: Trace metals synergized copper nucleotides and copper  
 glycosides for anti-aging and  
 antiviral compositions

INVENTOR(S): Gupta, Shyam K.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 18 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 11

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 20040105894	A1	20040603	US 2002-306948	20021129
US 20060183708	A1	20060817	US 2006-308290	20060315
US 20070189992	A1	20070816	US 2007-676284	20070217
PRIORITY APPLN. INFO.:			US 2002-306948	A2 20021129
			US 2004-710011	A2 20040611
			US 2006-308290	A2 20060315

ED Entered STN: 04 Jun 2004

AB Trace metals such as copper, zinc, iron, and manganese that are necessary for  
 the proper functioning of superoxide dismutase (SOD) and other deactivators of

active-oxygen mols. (which cause aging of skin and other skin disorders), can be delivered from the topical compns. This is achieved by the preparation of copper and other trace metal complexes with phosphorylated nucleosides, such as nucleotides, and phosphorylated monosaccharides, such as phosphorylated glycosides which act as small mol. weight (SMW) transporter mols. These trace metal complexes of nucleotides and glycosides can be prepared by an in-situ method in water, water-miscible organic solvent, or a mixture of water and water-miscible organic solvent from commonly available ingredients in concns. that are desirable and can be accurately controlled. Also disclosed are compns. to achieve the transport of copper from the surface layers of skin into the deeper layers of skin utilizing SMW transporter mols.; and the intra-cellular storage of copper ions in the cell, for example in a bound form with glutathione; and the intra-cellular transport of copper from glutathione to SOD apoprotein by metallochaperones; and the supply of energetic mols., such as ATP, ADP, or phosphorylated saccharides for SOD metallochaperones to perform their intra-cellular metal transfer function. These cosmetic or pharmaceutical compns. are useful for antiaging and antiviral benefits. A Cu-ATP solution was prepared from copper gluconate and ATP disodium hydrate. Compns. such as an anti-wrinkle skin lotion with Zn and Mg as cofactors were prepared

- IC ICM A61K048-00
- ICS A61K038-16; A61K038-40; A61K031-715; A61K033-24
- INCL 424617000; 514006000; 514044000; 514054000
- CC 62-4 (Essential Oils and Cosmetics)
- Section cross-reference(s): 63
- ST trance metal copper nucleotide glycoside antiaging antiviral compn
- IT Cosmetics
  - (antiaging; trace metals synergized copper nucleotides and copper glycosides for anti-aging and antiviral compns.)
- IT Amino acids, biological studies
  - Peptides, biological studies
  - Proteins
  - RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
  - USES (Uses)
    - (complexes; trace metals synergized copper nucleotides and copper glycosides for anti-aging and antiviral compns.)
- IT Drug delivery systems
  - (topical; trace metals synergized copper nucleotides and copper glycosides for anti-aging and antiviral compns.)
- IT Antiviral agents
  - (trace metals synergized copper nucleotides and copper glycosides for anti-aging and antiviral compns.)
- IT Metallothioneins
  - Nucleotides, biological studies
  - Trace metals
  - RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
  - USES (Uses)
    - (trace metals synergized copper nucleotides and copper glycosides for anti-aging and antiviral compns.)
- IT 53-84-9, NAD 56-65-5, ATP, biological studies 56-73-5, Glucose 6-phosphate 58-64-0, ADP, biological studies 58-68-4, NADH 59-56-3 61-19-8, AMP, biological studies 70-18-8, Glutathione, biological studies 85-32-5, Guanylic acid 86-04-4, Inosine diphosphate 98-98-6D, Picolinic acid, reaction with copper 131-99-7, Inosinic acid 142-71-2, Copper acetate 146-14-5, FAD 146-91-8, Guanosine diphosphate 328-50-7D, reaction with copper, manganese and zinc 488-69-7, Fructose 1,6-diphosphate 527-09-3, Copper gluconate 546-46-3, Zinc citrate 551-64-4 557-09-5, Zinc caprylate 557-34-6, Zinc acetate 616-91-1,

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N-Acetylcysteine 637-82-1, Manganese succinate 643-13-0, Fructose 6-phosphate 987-78-0, Citicholine 1300-26-1, Zinc glycerophosphate 1320-46-3, Manganese glycerophosphate 2180-18-9, Manganese acetate 2847-05-4, Zinc malate 3251-23-8 3890-89-9, Copper caprylate 4468-02-4, Zinc gluconate 6228-53-1, Zinc succinate 6485-39-8, Manganese gluconate 6819-13-2, Manganese caprylate 7268-91-9, Copper succinate 7439-96-5, Manganese, biological studies 7440-50-8, Copper, biological studies 7440-66-6, Zinc, biological studies 7447-39-4, Copper chloride (CuCl<sub>2</sub>), biological studies 7646-85-7, Zinc chloride, biological studies 7733-02-0, Zinc sulfate 7758-98-7, Copper sulfate, biological studies 7779-88-6, Zinc nitrate 7785-87-7, Manganese sulfate 10024-66-5, Manganese citrate 10139-18-1, Glucose 1,6-diphosphate 10377-66-9, Manganese nitrate 10402-15-0, Copper citrate 11132-78-8, Manganese chloride 12040-65-2D, Glycerophosphate, reaction with copper 13479-54-4, Copper glycinate 13870-80-9, Copper histidinate 13870-82-1 13985-65-4, Copper methioninate 14049-88-8 14281-77-7 14281-83-5, Zinc glycinate 14998-36-8, Manganese tartrate 15158-11-9D, Copper II, complexes with amino acids or peptides or nucleotides or proteins 15628-81-6 15978-08-2, Fructose 1-phosphate 16039-52-4, Copper lactate 16039-53-5, Zinc lactate 16283-36-6, Zinc salicylate 16351-10-3, Manganese ascorbate 16397-91-4D, Manganese II, complexes with amino acids or peptides or nucleotides or proteins 16743-16-1, Zinc histidinate 16827-84-2 17263-55-7, Copper malate 17949-65-4, Zincpicolinate 18917-85-6 20936-31-6, Copper salicylate 21512-99-2 21676-62-0 23333-98-4, Zinc lysinate 23713-49-7D, Zinc II, complexes with amino acids or peptides or nucleotides or proteins 24640-31-1 24887-16-9, Zinc pyruvate 27004-40-6, Copper tartrate 28029-54-1 30827-46-4 33010-91-2, Copper fumarate 34992-53-5 36015-31-3 36393-20-1, Zinc aspartate 40816-51-1 51877-53-3, Manganese lactate 51914-60-4, Zinc nicotinate 52723-61-2, Zinc fumarate 59866-25-0 59949-07-4 60880-81-1, Sucrose phosphate 61024-52-0 81876-67-7 81899-04-9 83455-26-9 84493-88-9 85169-07-9 112983-87-6 145482-34-4, Manganese pyruvate 151728-40-4, Zinc ascorbate 173364-38-0 173521-41-0

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(trace metals synergized copper nucleotides and copper glycosides for anti-aging and antiviral compns.)

IT 61-19-8, AMP, biological studies

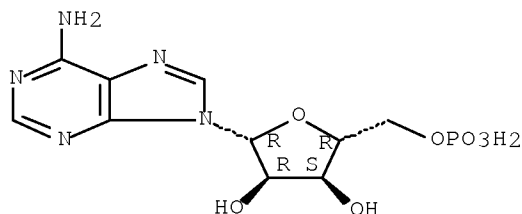
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(trace metals synergized copper nucleotides and copper glycosides for anti-aging and antiviral compns.)

RN 61-19-8 CAPLUS

CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



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L64 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:993109 CAPLUS Full-text

DOCUMENT NUMBER: 141:415634

TITLE: Skin compositions containing anti-aging peptides and polyhydric alcohols

INVENTOR(S): Hirano, Nobuyuki; Adachi, Katsuyoshi; Tada, Takahiro; Ito, Shiho; Aramaki, Kaname

PATENT ASSIGNEE(S): Mikimoto Pharmaceutical Co., Ltd., Japan; Toshin Kagaku Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004323401	A	20041118	JP 2003-118442	20030423
PRIORITY APPLN. INFO.:			JP 2003-118442	20030423

ED Entered STN: 19 Nov 2004

AB The invention relates to a skin composition containing Glu-Glu-Met-Gln-Arg-Arg peptide and polyhydric alc. having  $\geq 2$  OH groups, wherein the composition shows improved effect of the peptide. Skin compns. containing the hexapeptide, polyhydric alcs., and other active components are also disclosed. A cosmetic lotion containing Glu-Glu-Met-Gln-Arg-Arg peptide solution (Argireline solution) 10, glycerin 10, Me paraben 0.2, and water balance to 100% was formulated.

IC ICM A61K007-48

ICS A61K007-00; A61K038-00; A61K047-10; A61K047-18; A61P017-16

CC 62-4 (Essential Oils and Cosmetics)

ST hexapeptide polyalc antiaging cosmetic

IT Cell activation

(agents for; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(alc.-modified; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(amino; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Cosmetics

(antiaging; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Coffee products

(beverages; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Oryza sativa

(bran, exts.; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Carbohydrates, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(brown sugar; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Aves

Celosia argentea cristata

Crustacea

Egg, poultry

Insecta  
Mammalia  
(components; skin compns. containing anti-aging  
peptides and polyhydric alcs. with other defined active components)

IT Cosmetics  
(creams; skin compns. containing anti-aging peptides  
and polyhydric alcs. with other defined active components)

IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cyclic; skin compns. containing anti-aging peptides  
and polyhydric alcs. with other defined active components)

IT Hemoglobins  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(derivs.; skin compns. containing anti-aging peptides  
and polyhydric alcs. with other defined active components)

IT Fatty acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(esters, with sucrose; skin compns. containing anti-aging  
peptides and polyhydric alcs. with other defined active components)

IT Blood products  
(exts., bovine; skin compns. containing anti-aging  
peptides and polyhydric alcs. with other defined active components)

IT Ampelopsis japonica  
Asiasarum  
Asparagus (genus)  
Bifidobacterium  
Cassia nomame  
Chamomile  
Cicadidae  
Crataegus  
Cryptotympana atrata  
Cydonia speciosa  
Eucalyptus  
Fagus  
Glycyrrhiza  
Humulus lupulus  
Inula britannica  
Lactic acid bacteria  
Lilium longiflorum  
Lycopersicon esculentum  
Milletia reticulata  
Molasses  
Mollusca  
Momordica grosvenori  
Ononis spinosa  
Paeonia lactiflora  
Periploca sepium  
Pisum sativum  
Placenta  
Raspberry  
Rosa multiflora  
Rosa rugosa  
Saxifraga  
Scutellaria  
Shellfish  
Sophora  
Spleen  
Tea products  
Vitis vinifera  
Yeast

(exts.; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Triticum aestivum  
(germ, exts.; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Ethers, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(glyceryl, alkyl; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Peptides, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hexapeptides; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Castor oil  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hydrogenated, ethoxylated; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Squid  
(ink, exts.; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Cosmetics  
(lotions; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Betaines  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(low-mol.-weight; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Alcohols, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(lower; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Fats and Glyceridic oils, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(macadamia nut; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Fish  
(meat components; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Cosmetics  
(moisturizers; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Polyethers, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(perfluoro; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Sterols  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(phyto; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Fluoropolymers, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyether-, perfluoro; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Alcohols, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyhydric; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

IT Circulation



- (promoters; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)
- IT Bran
  - (rice, exts.; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)
- IT Anti-inflammatory agents
  - Antioxidants
  - Beeswax
  - Honey
  - Royal jelly
  - Surfactants
  - Natural products
  - RL: BIOL (Biological study); USES (Uses)
    - (skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)
- IT Alcohols, biological studies
  - Amino acids, biological studies
  - Carbohydrates, biological studies
  - Carboxylic acids, biological studies
  - Carotenes, biological studies
  - Ceramides
  - Collagens, biological studies
  - DNA
  - Elastins
  - Esters, biological studies
  - Fatty acids, biological studies
  - Fibronectins
  - Flavonoids
  - Glycolipids
  - Hormones, animal, biological studies
  - Hydrocarbons, biological studies
  - Jojoba oil
  - Keratins
  - Lactoferrins
  - Lanolin
  - Mucins
  - Mucopolysaccharides, biological studies
  - Nucleic acids
  - Olive oil
  - Paraffin oils
  - Petrolatum
  - Phospholipids, biological studies
  - Proteins
  - RNA
  - Safflower oil
  - Tannins
  - Tocopherols
  - Waxes
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
    - (skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)
- IT Cosmetics
  - (skin-lightening; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)
- IT DNA
  - RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
    - (sodium complexes; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)
- IT Glycine max

(soybean products, exts.; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)

- IT Cantharis  
(tincture; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)
- IT 83-75-0, Euquinine  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(exts.; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)
- IT 50-21-5, Lactic acid, biological studies 50-28-2, Estradiol, biological studies 50-33-9, Phenylbutazone, biological studies 50-70-4, Sorbitol, biological studies 50-81-7, Ascorbic acid, biological studies 50-99-7, Glucose, biological studies 51-35-4, Hydroxyproline 51-84-3, Acetylcholine, biological studies 52-53-9, Verapamil 52-90-4, Cystein, biological studies 53-86-1, Indomethacin 56-40-6, Glycine, biological studies 56-41-7, Alanine, biological studies 56-45-1, Serine, biological studies 56-65-5, Adenosine triphosphate, biological studies 56-81-5, Glycerin, biological studies 56-84-8, Aspartic acid, biological studies 56-85-9, Glutamine, biological studies 56-86-0, Glutamic acid, biological studies 56-87-1, Lysine, biological studies 57-11-4, Stearic acid, biological studies 57-13-6, Urea, biological studies 57-48-7, Fructose, biological studies 57-55-6, Propylene glycol, biological studies 57-88-5, Cholesterol, biological studies 58-08-2, Caffeine, biological studies 58-55-9, Theophylline, biological studies 58-64-0, Adenosine diphosphate, biological studies 58-86-6, Xylose, biological studies 59-98-3, Tolazoline 60-18-4, Tyrosine, biological studies 60-32-2,  $\epsilon$ -Aminocaproic acid 60-92-4, Cyclic AMP 61-19-8, Adenosine monophosphate, biological studies 61-68-7, Mephenamic acid 63-68-3, Methionine, biological studies 63-91-2, Phenylalanine, biological studies 64-17-5, Ethanol, biological studies 65-71-4, Thymine 69-65-8, Mannitol 69-79-4, Maltose 69-89-6, Xanthin 70-18-8, Glutathione, biological studies 70-26-8, Ornithine 70-47-3, Asparagine, biological studies 71-00-1, Histidine, biological studies 71-30-7, Cytosine 72-18-4, Valine, biological studies 72-19-5, Threonine, biological studies 73-22-3, Tryptophan, biological studies 73-24-5, Adenine, biological studies 73-32-5, Isoleucine, biological studies 73-40-5, Guanine 74-79-3, Arginine, biological studies 77-92-9, Citric acid, biological studies 79-14-1, Glycolic acid, biological studies 81-13-0, Panthenol 87-69-4, Tartaric acid, biological studies 87-99-0, Xylitol 97-59-6, Allantoin 98-79-3, Pyrrolidone carboxylic acid 99-20-7, Trehalose 107-43-7, Trimethyl glycine 107-88-0, 1,3 Butylene glycol 108-46-3, 1,3-Benzenediol, biological studies 110-15-6, Succinic acid, biological studies 110-27-0, Isopropyl myristate 111-01-3, Squalane 111-02-4, Squalene 112-85-6, Behenic acid 112-92-5, Stearyl alcohol 115-77-5, Pentaerythritol, biological studies 122-48-5, Gingerone 123-31-9, Hydroquinone, biological studies 128-37-0, Dibutylhydroxytoluene, biological studies 137-66-6, L-Ascorbyl palmitate 142-18-7, Glyceryl monolaurate 146-14-5 147-85-3, Proline, biological studies 149-32-6, Erythritol 149-91-7, Gallic acid, biological studies 298-57-7, Cinnarizine 331-39-5 372-75-8, Citrulline 404-86-4, Capsaicine 456-59-7, Cyclandelate 463-40-1,  $\alpha$ -Linolenic acid 481-49-2, Cepharanthine 489-84-9, Guaiazulene 497-76-7, Arbutin 506-26-3,  $\gamma$ -Linolenic acid 544-62-7, Batyl alcohol 544-63-8, Myristic acid, biological studies 551-15-5, Liquiritin 585-88-6, Maltitol 593-31-7, Selachyl alcohol 1135-24-6, Ferulic acid 1190-94-9, Hydroxylysine 1197-18-8, Tranexamic acid 1338-41-6, Sorbitan

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monostearate 1405-86-3, Glycyrrhizinic acid 1406-16-2, Vitamin D 1406-18-4, Vitamin E 2444-46-4 2495-84-3, Ascorbyl oleate 2568-33-4, Isoprene glycol 3081-61-6, Theanine 5041-81-6, IsoLiquiritin 6556-11-2, Inositol hexanicotinate 6915-15-7, Malic acid 7317-67-1 7360-38-5, Glyceryl tri-2-ethyl hexanoate 7665-99-8, Cyclic GMP 7678-95-7, Ethenyl estradiol 8029-68-3, Ichthammol 9004-53-9, Dextrin 9004-61-9, Hyaluronic acid 9004-73-3, PolyMethylsiloxane 9005-12-3, Methyl phenyl polysiloxane 9005-32-7, Alginic acid 9005-49-6, Heparin, biological studies 9005-67-8, Polyoxyethylene sorbitan monostearate 9007-28-7, Chondroitin sulfate 9050-30-0 9056-36-4, Keratan sulfate 9067-32-7, Sodium hyaluronate 9082-07-9, Chondroitin sulfate sodium salt 10417-94-4, Eicosapentaenoic acid 11042-64-1,  $\gamma$ -Oryzanol 11103-57-4, Vitamin A 12001-76-2, Vitamin B 15307-79-6, Sodium diclofenac 15687-27-1, Ibuprofen 17087-29-5, Trimethylalanine 18469-44-8 22071-15-4, Ketoprofen 24967-94-0, Dermatan sulfate 25013-16-5, Butylated hydroxyanisole 25395-66-8, L-Ascorbyl stearate 28474-90-0, L-Ascorbyl dipalmitate 29710-31-4, Cetyl octanoate 31566-31-1, Glycerin monostearate 32381-28-5, N,N'-Diacetylcystine dimethyl ester 35602-69-8, Cholesteryl stearate 36653-82-4, Cetanol 56939-67-4 59870-68-7, Glabridin 60008-03-9, Glabrene 68797-35-3, Dipotassium glycyrrhizinate 74438-74-7, L-Ascorbic acid distearate 83826-43-1, Octyl dodecyl myristate 92353-27-0, L-Ascorbic acid dioleate 103000-77-7, Glycyrrhizinic acid 108910-78-7 110369-28-3 110369-30-7 110369-32-9 110369-35-2 110369-36-3 121123-79-3 122715-02-0,  $\alpha$ -Borneol 123638-49-3 125913-31-7 128808-19-5 128808-20-8 128808-21-9 128808-22-0, L-Ascorbic acid sulfate sodium salt 128808-23-1 128808-24-2 128808-25-3 128808-26-4 129499-78-1, L-Ascorbic acid glucoside 138069-07-5 161436-56-2 185323-25-5 404566-00-3, L-Ascorbic acid isopalmitate 616204-22-9, Argireline 745794-24-5 745794-25-6

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(skin compns. containing anti-aging peptides and  
polyhydric alcs. with other defined active components)

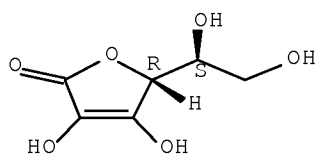
IT 50-81-7, Ascorbic acid, biological studies  
60-92-4, Cyclic AMP 61-19-3, Adenosine  
monophosphate, biological studies 129499-78-1, L-  
Ascorbic acid glucoside

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(skin compns. containing anti-aging peptides and  
polyhydric alcs. with other defined active components)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

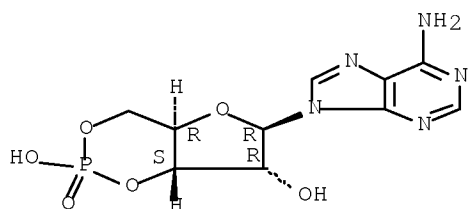
Absolute stereochemistry.



RN 60-92-4 CAPLUS

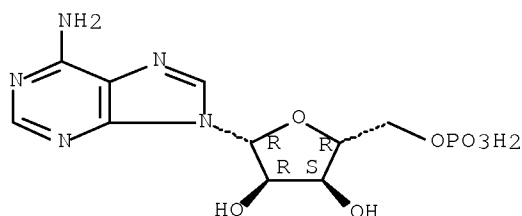
CN Adenosine, cyclic 3',5'-(hydrogen phosphate) (CA INDEX NAME)

Absolute stereochemistry.



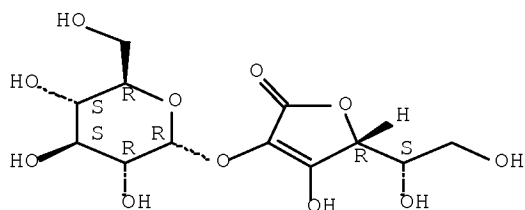
RN 61-19-8 CAPLUS  
CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



RN 129499-78-1 CAPLUS  
CN L-Ascorbic acid, 2-O-α-D-glucopyranosyl- (CA INDEX NAME)

Absolute stereochemistry.



L64 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2004:695458 CAPLUS [Full-text](#)  
DOCUMENT NUMBER: 141:230304  
TITLE: Skin moisturizing, lightening, and  
antiaging cosmetics and (quasi)drugs  
containing shellfish collagens type I (α1)3  
INVENTOR(S): Tada, Takahiro; Tsuji, Nobuhide; Adachi, Katsuyoshi  
PATENT ASSIGNEE(S): Mikimoto Pharmaceutical Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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Jody Karol 10/523,605

JP 2004238386 A 20040826 JP 2003-118440 20030423  
 PRIORITY APPLN. INFO.: JP 2002-358821 A 20021211  
 ED Entered STN: 26 Aug 2004  
 AB Cosmetics and (quasi)drugs contain (derivs. of) shellfish collagen type I  
 ( $\alpha$ 1)3 and skin moisturizers, softening agents, cell activators, anti-  
 inflammatory agents, antioxidants, circulation promoters, and/or skin-  
 lightening agents. Thus, a liquid cosmetic was formulated containing pearl  
 oyster collagen type I ( $\alpha$ 1)3 and Na hyaluronate.  
 IC ICM A61K007-48  
 ICS A61K007-00; A61K007-075; A61K031-025; A61K031-05; A61K031-165;  
 A61K031-196; A61K031-352; A61K031-375; A61K031-405; A61K031-575;  
 A61K031-661; A61K031-7034; A61K031-704; A61K035-56; A61K035-78;  
 A61K038-17; A61K047-10; A61K047-12; A61K047-18  
 CC 62-4 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 63  
 ST cosmetic drug shellfish collagen type I  $\alpha$ 1; skin moisturizer  
 lightening antiaging cosmetic oyster collagen  
 IT Polysiloxanes, biological studies  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (Me Ph; skin moisturizing, lightening, and antiaging  
 cosmetics and (quasi)drugs containing shellfish collagens type I  
 ( $\alpha$ 1)3 and other active ingredients)  
 IT Polysiloxanes, biological studies  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (Me; skin moisturizing, lightening, and antiaging  
 cosmetics and (quasi)drugs containing shellfish collagens type I  
 ( $\alpha$ 1)3 and other active ingredients)  
 IT Cosmetics  
 (antiaging; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)  
 IT Coffee products  
 (beans, extract; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)  
 IT Oryza sativa  
 (bran, extract; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)  
 IT Fagus crenata  
 (bud, extract; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)  
 IT Head and Neck  
 (comb, extract; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)  
 IT Blood serum  
 (deproteinated, extract; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)  
 IT Ampelopsis japonica  
 Asiasarum  
 Asparagus officinalis  
 Bifidobacterium  
 Blood

Cassia nomame  
 Chaenomeles lagenaria  
 Chiranthodendron pentadactylon  
 Coix lacryma-jobi  
 Crataegus cuneata  
 Crocus sativus  
 Eucalyptus  
 Fish  
 Glycine max  
 Humulus lupulus  
 Inula  
 Lactic acid bacteria  
 Lycopersicon esculentum  
 Molasses  
 Mollusca  
 Mucuna birdwoodiana  
 Ononis  
 Paeonia  
 Pisum sativum  
 Placenta  
 Psidium  
 Raspberry  
 Rosa multiflora  
 Rosa rugosa  
 Scutellaria baicalensis  
 Seaweed  
 Spleen  
 Vitis vinifera  
 Yeast

(extract; skin moisturizing, lightening, and antiaging  
 cosmetics and (quasi)drugs containing shellfish collagens type I  
 ( $\alpha$ 1)3 and other active ingredients)

IT Momordica grosvenori

(fruit, extract; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)

IT Triticum aestivum

(germ, extract; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)

IT Tea products

(leaves, extract; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)

IT Fats and Glyceridic oils, biological studies

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)

(macadamia nut; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)

(modified; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)

IT Cosmetics

(moisturizers; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish

- collagens type I ( $\alpha$ 1)3 and other active ingredients)
- IT Polyethers, biological studies  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (perfluoro; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)
- IT Cicada  
 (periostracum, extract; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)
- IT Sterols  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (phyto-; skin moisturizing, lightening, and antiaging  
 cosmetics and (quasi)drugs containing shellfish collagens type I  
 ( $\alpha$ 1)3 and other active ingredients)
- IT Fluoropolymers, biological studies  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (polyether-, perfluoro; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)
- IT Alcohols, biological studies  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)  
 (polyhydric; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)
- IT Circulation  
 (promoters; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)
- IT Silk  
 (proteins; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)
- IT Sophora  
 (radix, extract; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)
- IT Bran  
 (rice, extract; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)
- IT Acanthopanax  
 (root bark, extract; skin moisturizing, lightening, and  
 antiaging cosmetics and (quasi)drugs containing shellfish  
 collagens type I ( $\alpha$ 1)3 and other active ingredients)
- IT Anti-inflammatory agents  
 Antioxidants  
 Beeswax  
 Egg, poultry  
 Glycyrrhiza glabra  
 Honey  
 Inflammation  
 Matricaria recutita  
 Oyster

Royal jelly

Saxifraga stolonifera

Shellfish

(skin moisturizing, lightening, and antiaging  
cosmetics and (quasi)drugs containing shellfish collagens type I  
( $\alpha$ 1)3 and other active ingredients)

IT Amino acids, biological studies

Carbohydrates, biological studies

Carboxylic acids, biological studies

Carotenes, biological studies

Ceramides

Cyclosiloxanes

DNA

Elastins

Esters, biological studies

Fatty acids, biological studies

Fibronectins

Glycolipids

Hemoglobins

Hormones, animal, biological studies

Jojoba oil

Keratins

Lactoferrins

Lanolin

Mucins

Mucopolysaccharides, biological studies

Olive oil

Paraffin oils

Petrolatum

Phospholipids, biological studies

Protein hydrolyzates

Proteins

RNA

Safflower oil

Waxes

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);

USES (Uses)

(skin moisturizing, lightening, and antiaging  
cosmetics and (quasi)drugs containing shellfish collagens type I  
( $\alpha$ 1)3 and other active ingredients)

IT Cosmetics

(skin-lightening; skin moisturizing, lightening,  
and antiaging cosmetics and (quasi)drugs containing  
shellfish collagens type I ( $\alpha$ 1)3 and other active ingredients)

IT Cantharis

(tincture; skin moisturizing, lightening, and  
antiaging cosmetics and (quasi)drugs containing shellfish  
collagens type I ( $\alpha$ 1)3 and other active ingredients)

IT Collagens, biological studies

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);

USES (Uses)

(type I, ( $\alpha$ 1)2 $\alpha$ 2; skin moisturizing, lightening,  
and antiaging cosmetics and (quasi)drugs containing  
shellfish collagens type I ( $\alpha$ 1)3 and other active ingredients)

IT Collagens, biological studies

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);

USES (Uses)

(type I, ( $\alpha$ 1)3; skin moisturizing, lightening, and  
antiaging cosmetics and (quasi)drugs containing shellfish



collagens type I ( $\alpha$ 1)3 and other active ingredients)

IT Liliun  
(white, extract; skin moisturizing, lightening, and  
antiaging cosmetics and (quasi)drugs containing shellfish  
collagens type I ( $\alpha$ 1)3 and other active ingredients)

IT 50-21-5, Lactic acid, biological studies 50-28-2, Estradiol, biological  
studies 50-33-9, Phenylbutazone, biological studies 50-70-4, Sorbitol,  
biological studies 50-81-7, L-Ascorbic acid,  
biological studies 50-81-7D, Ascorbic acid, alkyl  
esters 50-99-7, Glucose, biological studies 51-35-4, Hydroxyproline  
51-84-3, Acetylcholine, biological studies 52-53-9, Verapamil 52-90-4,  
Cysteine, biological studies 53-86-1, Indomethacin 56-40-6, Glycine,  
biological studies 56-41-7, Alanine, biological studies 56-45-1,  
Serine, biological studies 56-65-5, Adenosine  
triphosphate, biological studies 56-81-5D, Glycerin, alkyl  
ethers 56-84-8, Aspartic acid, biological studies 56-85-9, Glutamine,  
biological studies 56-86-0, Glutamic acid, biological studies 56-87-1,  
Lysine, biological studies 56-89-3, Cystine, biological studies  
57-11-4, Stearic acid, biological studies 57-13-6, Urea, biological  
studies 57-48-7, Fructose, biological studies 57-50-1, Sucrose,  
biological studies 57-88-5, Cholesterol, biological studies 58-08-2,  
Caffeine, biological studies 58-55-9, Theophylline, biological studies  
58-64-0, Adenosine diphosphate, biological studies  
58-86-6, Xylose, biological studies 59-98-3, Tolazoline 60-18-4,  
Tyrosine, biological studies 60-32-2,  $\epsilon$ -Aminocaproic acid  
60-92-4, Cyclic AMP 61-19-8, Adenosine  
monophosphate, biological studies 61-68-7, Mefenamic acid  
63-68-3, Methionine, biological studies 63-91-2, Phenylalanine,  
biological studies 64-17-5, Ethanol, biological studies 65-71-4,  
Thymine 69-65-8, Mannitol 69-79-4, Maltose 69-89-6, Xanthine  
70-18-8, Glutathione, biological studies 70-26-8, Ornithine 70-47-3,  
Asparagine, biological studies 71-00-1, Histidine, biological studies  
71-30-7, Cytosine 72-18-4, Valine, biological studies 72-19-5,  
Threonine, biological studies 73-22-3, Tryptophan, biological studies  
73-24-5, Adenine, biological studies 73-32-5, Isoleucine, biological  
studies 73-40-5, Guanine 74-79-3, Arginine, biological studies  
77-92-9, Citric acid, biological studies 79-14-1, Glycolic acid,  
biological studies 81-13-0, Panthenol 87-69-4, Tartaric acid,  
biological studies 87-89-8, Inositol 87-99-0, Xylitol 97-59-6,  
Allantoin 98-79-3, Pyrrolidonecarboxylic acid 99-20-7, Trehalose  
108-46-3, Resorcin, biological studies 110-15-6, Succinic acid,  
biological studies 110-27-0, Isopropyl myristate 111-01-3, Squalane  
111-02-4, Squalene 112-85-6, Behenic acid 112-92-5, Stearyl alcohol  
115-77-5, Pentaerythritol, biological studies 122-48-5, Zingerone  
128-37-0, Dibutylhydroxytoluene, biological studies 134-03-2 137-66-6,  
L-Ascorbyl palmitate 146-14-5, FAD 147-85-3, Proline, biological  
studies 149-32-6, Erythritol 298-57-7, Cinnarizine 331-39-5, Caffeic  
acid 372-75-8, Citrulline 404-86-4, Capsaicin 456-59-7, Cycandelate  
463-40-1,  $\alpha$ -Linolenic acid 471-53-4, Glycyrrhetic acid  
481-49-2, Cepharanthine 489-84-9, Guaiazulene 497-76-7, Arbutin  
506-26-3,  $\gamma$ -Linolenic acid 544-62-7, Batyl alcohol 544-63-8,  
Myristic acid, biological studies 551-15-5, Liquiritin 585-88-6,  
Maltitol 593-31-7, Selachyl alcohol 1135-24-6, Ferulic acid  
1190-94-9, Hydroxylysine 1197-18-8, Tranexamic acid 1405-86-3,  
Glycyrrhizinic acid 1406-16-2, Vitamin D 1406-18-4, Vitamin E  
2444-46-4, Nonylic vanillylamide 3081-61-6, Theanine 5041-81-6,  
Isoliquiritin 6556-11-2, Inositol hexanicotinate 6915-15-7, Malic acid  
7665-99-8, Cyclic GMP 7678-95-7, Ethenylestradiol 8029-68-3,  
Ichthammol 9004-53-9, Dextrin 9004-61-9, Hyaluronic acid 9005-32-7,

# Jody Karol 10/523,605

Alginic acid 9005-49-6, Heparin, biological studies 9007-28-7,  
 Chondroitin sulfate 9050-30-0, Heparan sulfate 9056-36-4, Keratan  
 sulfate 10417-94-4, Eicosapentaenoic acid 11042-64-1,  $\gamma$ -Oryzanol  
 11103-57-4, Vitamin A 12001-76-2, Vitamin B 15307-79-6, Sodium  
 diclofenac 15687-27-1, Ibuprofen 18779-49-2, L-Ascorbic acid  
 calcium salt 22071-15-4, Ketoprofen 24967-94-0, Dermatan sulfate  
 25013-16-5, Butylhydroxyanisole 25395-66-8, L-Ascorbyl stearate  
 27475-47-4 28474-90-0, L-Ascorbyl dipalmitate 29710-31-4, Cetyl  
 octanoate 32381-28-5, N,N'-Diacetylcystine dimethyl ester 35602-69-8,  
 Cholesteryl stearate 36653-82-4, Cetanol 56939-67-4, L-  
 Ascorbic acid sulfate 59870-68-7, Glabridin 60008-03-9,  
 Glabrene 74438-74-7 92353-27-0 108910-78-7, L-Ascorbic  
 acid phosphate magnesium salt 110369-28-3 110369-30-7 110369-32-9  
 110369-35-2 110369-36-3 121123-79-3, L-Ascorbic acid  
 potassium salt 122715-02-0,  $\alpha$ -Borneol 123638-49-3, L-  
 Ascorbic acid aluminum salt 125913-31-7, L-Ascorbic  
 acid phosphate 128808-19-5 128808-20-8 128808-21-9 128808-22-0, L-  
 Ascorbic acid sulfate sodium salt 128808-23-1, L-  
 Ascorbic acid phosphate aluminum salt 128808-24-2, L-  
 Ascorbic acid phosphate calcium salt 128808-25-3, L-  
 Ascorbic acid phosphate potassium salt 128808-26-4, L-  
 Ascorbic acid phosphate sodium salt 129499-78-1, L-  
 Ascorbic acid glucoside 137995-21-2, L-Ascorbic acid  
 magnesium salt 138069-07-5 161436-56-2, L-Ascorbyl tetraisopalmitate  
 404566-00-3, L-Ascorbic acid isopalmitate 745794-24-5  
 745794-25-6 745794-26-7

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)

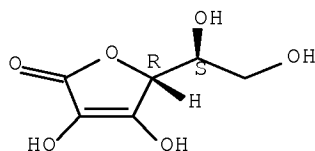
(skin moisturizing, lightening, and antiaging  
 cosmetics and (quasi)drugs containing shellfish collagens type I  
 ( $\alpha$ 1)3 and other active ingredients)

IT 50-81-7, L-Ascorbic acid, biological studies  
 50-81-7D, Ascorbic acid, alkyl esters 60-92-4,  
 Cyclic AMP 61-19-8, Adenosine monophosphate,  
 biological studies 129499-78-1, L-Ascorbic acid  
 glucoside  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);  
 USES (Uses)

(skin moisturizing, lightening, and antiaging  
 cosmetics and (quasi)drugs containing shellfish collagens type I  
 ( $\alpha$ 1)3 and other active ingredients)

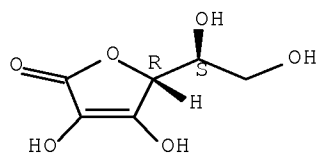
RN 50-81-7 CAPLUS  
 CN L-Ascorbic acid (CA INDEX NAME)

Absolute stereochemistry.



RN 50-81-7 CAPLUS  
 CN L-Ascorbic acid (CA INDEX NAME)

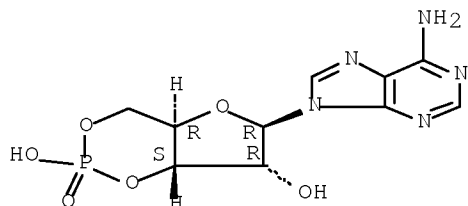
Absolute stereochemistry.



RN 60-92-4 CAPLUS

CN Adenosine, cyclic 3',5'-(hydrogen phosphate) (CA INDEX NAME)

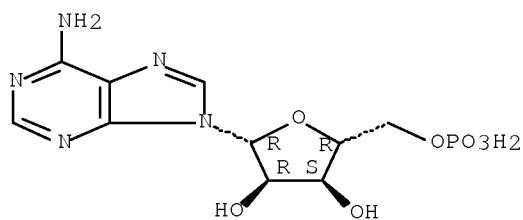
Absolute stereochemistry.



RN 61-19-8 CAPLUS

CN 5'-Adenylic acid (CA INDEX NAME)

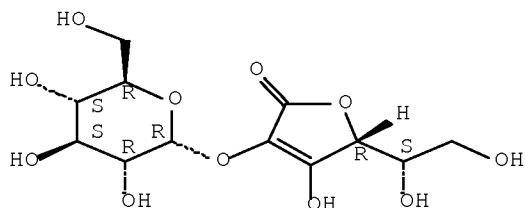
Absolute stereochemistry.



RN 129499-78-1 CAPLUS

CN L-Ascorbic acid, 2-O-α-D-glucopyranosyl- (CA INDEX NAME)

Absolute stereochemistry.



L64 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:417503 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 138:406580

TITLE: Use of reed or its ingredients in the form of extracts

for cosmetic formulations  
 INVENTOR(S): Aguadish, Louis Michel Jacques; Mane, Jean Maurice  
 Eugene; Berthon, Jean Yves Antonin  
 PATENT ASSIGNEE(S): Greentech S. A., Fr.; V Mane Fils  
 SOURCE: Fr. Demande, 17 pp.  
 CODEN: FRXXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2832631	A1	20030530	FR 2001-15405	20011127
FR 2832631	B1	20040618		

PRIORITY APPLN. INFO.: FR 2001-15405 20011127

ED Entered STN: 01 Jun 2003

AB The present invention relates to the use of the reed (Reeds communis), (Acorus calamus), (Arundo dorax) or (Cordyline terminalis) in the form of aqueous, alc., acetone, hydroalcoholic, hydroglycolic, glycolic or oil exts. for the preparation of cosmetic formulations (skin, body, hair), presenting local slimming properties by reduction in the lipidic load of the s.c. adipocytes, characterized by the presence of inhibiting cAMP phosphodiesterase inhibitors (adenosine 3':5' monophosphate cyclic phosphodiesterase) and activators of the adenylate cyclase, presenting antiradical properties, slowing down cellular ageing due to the presence of polyphenols and flavonoids, presenting by the presence of polysaccharides and free sugars such as saccharose, presenting immunomodulating properties by the presence of polysaccharides, inhibiting epidermal and dermal ageing due to the presence of specific polysaccharides such as arabinoglucans, vitamin C and organic acids, presenting detoxifying properties naturally recognized for the reed in its environment, due to the presence of flavonoids and polyphenols allowing the complexation and the elimination of heavy metals and aggressive pollutants on the skin, presenting refreshing and invigorating properties naturally recognized for the reed, due to the presence of polysaccharides, saccharose and vitamin C (ascorbic acid), rejuvenating properties for epidermis, dermis and hair.

IC ICM A61K007-48

ICS A61K007-06; A61K007-40

CC 62-3 (Essential Oils and Cosmetics)

ST reed ext cosmetic hair skin

IT Adipose tissue

(adipocyte; use of reed or its ingredients in form of exts. for cosmetic formulations)

IT Cosmetics

(antiaging; use of reed or its ingredients in form of exts. for cosmetic formulations)

IT Skin

(dermis; use of reed or its ingredients in form of exts. for cosmetic formulations)

IT Skin

(epidermis; use of reed or its ingredients in form of exts. for cosmetic formulations)

IT Acids, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(organic; use of reed or its ingredients in form of exts. for cosmetic formulations)

IT Phenols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(polyphenols, nonpolymeric; use of reed or its ingredients in form of exts. for cosmetic formulations)

IT Acorus calamus  
Aging, animal  
Arundo donax  
Cordyline terminalis  
Immunomodulators  
Reed  
(use of reed or its ingredients in form of exts. for cosmetic formulations)

IT Carbohydrates, biological studies  
Flavonoids  
Polysaccharides, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(use of reed or its ingredients in form of exts. for cosmetic formulations)

IT 9012-42-4, Adenylate cyclase  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(activators; use of reed or its ingredients in form of exts. for cosmetic formulations)

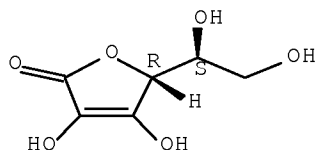
IT 9036-21-9, CAMP phosphodiesterase  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(inhibitors; use of reed or its ingredients in form of exts. for cosmetic formulations)

IT 50-81-7, Vitamin c, biological studies  
57-50-1, Saccharose, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(use of reed or its ingredients in form of exts. for cosmetic formulations)

IT 50-81-7, Vitamin c, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(use of reed or its ingredients in form of exts. for cosmetic formulations)

RN 50-81-7 CAPLUS  
CN L-Ascorbic acid (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L64 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2001:396636 CAPLUS Full-text  
DOCUMENT NUMBER: 135:9833  
TITLE: Ajuga turkestanica extract and its cosmetic uses  
INVENTOR(S): Dumas, Marc; Bonte, Frederic; Gondran, Catherine  
PATENT ASSIGNEE(S): Lvmh Recherche, Fr.  
SOURCE: PCT Int. Appl., 31 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001037799	A1	20010531	WO 2000-FR3274	20001124
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
FR 2801504	A1	20010601	FR 1999-14893	19991126
FR 2801504	B1	20020215		
EP 1231893	A1	20020821	EP 2000-985316	20001124
EP 1231893	B1	20040818		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
JP 2003514839	T	20030422	JP 2001-539415	20001124
AT 273692	T	20040915	AT 2000-985316	20001124
ES 2226960	T3	20050401	ES 2000-985316	20001124
US 7060693	B1	20060613	US 2002-130788	20020523
HK 1050841	A1	20050121	HK 2003-101357	20030221
PRIORITY APPLN. INFO.:			FR 1999-14893	A 19991126
			WO 2000-FR3274	W 20001124

ED Entered STN: 01 Jun 2001

AB The invention concerns an extract of the *Ajuga turkestanica* plant containing at least an ecdysteroid and at least an iridoid and obtainable by extracting part at least of said plant using a solvent or a mixture of solvents consisting of 0 to 60 weight of water, the remainder of said solvent or mixture of solvents consisting of at least a C1-C4 alc., and/or acetone and/or butylene glycol and/or propylene glycol, more particularly an extract containing one part by weight of ecdysteroid for 2 to 4 parts by weight of iridoids. The invention also concerns cosmetic uses of said exts. or combinations containing one part by weight of ecdysteroids for 2 to 4 parts by weight of iridoids as cosmetic agents for improving keratinocyte differentiation, or for regulating hydric flux and re-absorption of water into the epidermis, or for hydrating the epidermis. The invention further concerns a cosmetic treatment method for the skin whereby a cosmetically efficient amount of said exts. or combinations are used. A hydroalcoholic extract of *A. turkestanica* was prepared and its ecdysteroids and iridoids was determined. The activity of the extract of the keratinocyte differentiation was studied. formulation of an antiaging cosmetic emulsion containing 0.025 g of *A. turkestanica* was disclosed.

IC ICM A61K007-48

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 1

ST *Ajuga* ext cosmetic ecdysteroid iridoid

IT Alcohols, uses

RL: NUU (Other use, unclassified); USES (Uses)

(C1-4; *ajuga turkestanica* extract and its cosmetic uses)

IT *Ajuga turkestanica*

Bertholletia

Cell differentiation

Cork tree (*Phellodendron amurense*)

Ginseng (*Panax pseudoginseng*)

Solvents

(*ajuga turkestanica* extract and its cosmetic uses)

IT Ecdysteroids

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); OCCU (Occurrence); USES (Uses)

(*ajuga turkestanica* extract and its cosmetic uses)

IT Corticosteroids, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(Uses)  
 (ajuga turkestanica extract and its cosmetic uses)

IT Cosmetics  
 (antiaging; ajuga turkestanica extract and its cosmetic uses)

IT Skin  
 (epidermis; ajuga turkestanica extract and its cosmetic uses)

IT Cosmetics  
 (gels; ajuga turkestanica extract and its cosmetic uses)

IT Aglycons  
 RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); OCCU (Occurrence); USES (Uses)  
 (iridoid; ajuga turkestanica extract and its cosmetic uses)

IT Flavones  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (isoflavones; ajuga turkestanica extract and its cosmetic uses)

IT Skin  
 (keratinocyte; ajuga turkestanica extract and its cosmetic uses)

IT Cosmetics  
 (lotions; ajuga turkestanica extract and its cosmetic uses)

IT Cosmetics  
 (moisturizers; ajuga turkestanica extract and its cosmetic uses)

IT Saponins  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (soya; ajuga turkestanica extract and its cosmetic uses)

IT 3604-87-3,  $\alpha$ -Ecdysone 5289-74-7, Ecdysterone 6926-08-5, Harpagide 6926-14-3, 8-O-Acetylharpagide 17086-76-9, Cyasterone 41451-87-0, Turkesterone 67883-31-2, 22-Acetyl cyasterone 113866-76-5  
 RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); OCCU (Occurrence); USES (Uses)  
 (ajuga turkestanica extract and its cosmetic uses)

IT 50-81-7, vitamin c, biological studies  
 58-08-2, caffeine, biological studies 58-86-6, D-xylose, biological studies 58-95-7, vitamin e acetate 60-92-4, cyclic amp  
 69-89-6, xanthine 79-81-2, vitamin a palmitate 127-47-9, vitamin a acetate 299-28-5, calcium gluconate 464-92-6, asiatic acid 476-66-4, ellagic acid 501-36-0, resveratrol 1406-18-4, vitamin e 7773-01-5, manganese chloride 9004-61-9, hyaluronic acid 11103-57-4, vitamin a 16830-15-2, asiaticoside 18449-41-7, madecassic acid 18962-61-3, magnesium aspartate 34540-22-2, madecassoside 53956-04-0, ammonium glycyrrhizinate 71276-50-1 108910-78-7, magnesium ascorbyl phosphate  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (ajuga turkestanica extract and its cosmetic uses)

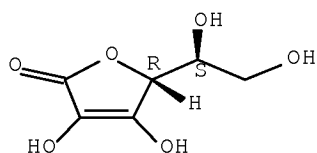
IT 57-55-6, Propylene glycol, uses 67-56-1, Methanol, uses 67-64-1, Acetone, uses 110-63-4, Butylene glycol, uses  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (ajuga turkestanica extract and its cosmetic uses)

IT 50-81-7, vitamin c, biological studies  
 60-92-4, cyclic amp  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (ajuga turkestanica extract and its cosmetic uses)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

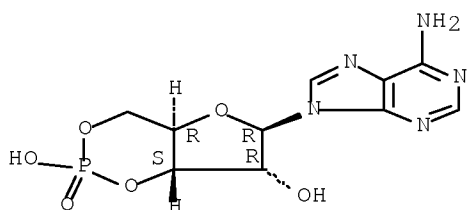
Absolute stereochemistry.



RN 60-92-4 CAPLUS

CN Adenosine, cyclic 3',5'-(hydrogen phosphate) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L64 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:585381 CAPLUS Full-text

DOCUMENT NUMBER: 133:182770

TITLE: Antiaging cosmetics containing tomato pigments

INVENTOR(S): Uehara, Shizuka; Kameyama, Kumi; Kondo, Chiharu; Takada, Norihisa

PATENT ASSIGNEE(S): Kosei Co., Ltd., Japan; Nippon Delmonte K. K.

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000229827	A	20000822	JP 1999-28301	19990205
PRIORITY APPLN. INFO.:			JP 1999-28301	19990205

ED Entered STN: 23 Aug 2000

AB The cosmetics are claimed. The tomato pigments may mainly comprise lycopene isolated by centrifugation of tomato preps., microfiltration of the liquid parts, and collection of unfiltered substances by microfiltration. The cosmetics may addnl. contain active oxygen scavengers, antioxidants, inflammation inhibitors, UV shields, cell activators, and/or moisturizers. A cream containing the tomato pigment was used by volunteers to lighten skin and increase elasticity.

IC ICM A61K007-42

ICS A61K007-00; A61K009-06; A61P017-00; A61K035-78

CC 62-4 (Essential Oils and Cosmetics)

ST tomato pigment antiaging cosmetic; lycopene complex



- antiaging cosmetic
- IT Natural products, pharmaceutical
  - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
  - (Mudanpi, exts.; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Carotenes, biological studies
  - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
  - (active oxygen scavenger; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Anti-inflammatory agents
  - Antioxidants
  - Pigments, biological
  - Radical scavengers
  - Royal jelly
  - Sophora flavescens
  - Tomato
  - UV shields
  - UV stabilizers
  - (antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Cosmetics
  - (antiaging; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Beech (Fagus crenata)
  - (bud, exts., cell activator; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Cattle
  - (calf, blood exts., cell activator; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Amino acids, biological studies
  - Carbohydrates, biological studies
  - Ceramides
  - Collagens, biological studies
  - DNA
  - Elastins
  - Fibronectins
  - Glycolipids
  - Hemoglobins
  - Keratins
  - Lactoferrins
  - Mucins
  - Mucopolysaccharides, biological studies
  - Phospholipids, biological studies
  - Protein hydrolyzates
  - RNA
  - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
  - (cell activator; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Head
  - (comb, exts., cell activator; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other

- active ingredients)
- IT Blood serum  
(deproteinated, exts., cell activator; antiaging  
cosmetics containing tomato pigments mainly comprising lycopene  
complexes and other active ingredients)
- IT Grape  
(exts., cell activator and moisturizer; antiaging  
cosmetics containing tomato pigments mainly comprising lycopene  
complexes and other active ingredients)
- IT Asparagus  
Avocado (*Persea americana*)  
Barley  
Bifidobacterium  
Capsicum annuum  
Carrot  
Cordyceps  
Egg, poultry  
Ganoderma lucidum  
Garlic (*Allium sativum*)  
Lactic acid bacteria  
Lentinula edodes  
Lettuce (*Lactuca sativa*)  
Placenta  
Rosemary  
Shell  
Soybean (*Glycine max*)  
Spleen  
Swertia japonica  
Yeast  
(exts., cell activator; antiaging cosmetics containing  
tomato pigments mainly comprising lycopene complexes and other active  
ingredients)
- IT Actinidia chinensis  
Aloe (genus)  
Apple  
Apricot (*Prunus armeniaca*)  
Artemisia capillaris  
Asiasarum  
Burdock  
Cactus (Cactaceae)  
Centaurea cyanus  
Chaenomeles lagenaria  
Citrus junos  
Cnidium officinale  
Coix lacryma-jobi  
Corn  
Cucumber (*Cucumis sativus*)  
Equisetum arvense  
Fennel (*Foeniculum vulgare*)  
Gentian (*Gentiana lutea*)  
Ginger  
Grapefruit  
Hamamelis virginiana  
Hop (*Humulus lupulus*)  
Horse chestnut (*Aesculus hippocastanum*)  
Houttuynia cordata  
Ivy (*Hedera rhombea*)  
Lavender (*Lavandula*)  
Lemon (*Citrus limon*)  
Lime (*Citrus aurantifolia*)

Linden (*Tilia miqueliana*)  
 Luffa cylindrica  
 Lupine (*Lupinus*)  
 Mallow (*Malva sylvestris*)  
 Marshmallow (*Althaea officinalis*)  
 Oat  
 Ononis  
 Orange  
 Peach (*Prunus persica*)  
 Peony (*Paeonia lactiflora*)  
 Peppermint (*Mentha piperita*)  
 Pine (*Pinus*)  
 Poria cocos  
 Prune  
 Quince (*Cydonia oblonga*)  
 Raspberry  
 Rehmannia glutinosa  
 Ruscus aculeatus  
 Sanguisorba officinalis  
 Seaweed  
 Strawberry  
 Thyme (*Thymus vulgaris*)  
 Urtica thunbergiana  
 (exts., moisturizer; antiaging cosmetics containing  
 tomato pigments mainly comprising lycopene complexes and other active  
 ingredients)

IT Angelica keiskei  
 Arnica montana  
 Artemisia indica  
 Astragalus sinicus  
 Birch (*Betula platyphylla*)  
 Calendula officinalis  
 Chamomilla  
 Comfrey (*Symphytum*)  
 Cork tree (*Phellodendron amurense*)  
 Curcuma longa  
 Elder (*Sambucus sieboldiana*)  
 Eucalyptus  
 Geranium thunbergii  
 Ginkgo  
 Hawthorn (*Crataegus cuneata*)  
 Licorice (*Glycyrrhiza glabra*)  
 Melissa  
 Mucuna birdwoodiana  
 Parsley (*Petroselinum crispum*)  
 Perilla frutescens  
 Polygonum bistorta  
 Potentilla  
 Rose (*Rosa rugosa*)  
 Sage (*Salvia officinalis*)  
 Sapindus mukorossi  
 Saxifraga stolonifera  
 Scutellaria baicalensis  
 St.-John's-wort (*Hypericum erectum*)  
 Stevia  
 Tea (*Camellia sinensis*)  
 Watercress  
 (exts.; antiaging cosmetics containing tomato pigments  
 mainly comprising lycopene complexes and other active ingredients)

IT Rice (*Oryza sativa*)

- (fermented products, exts., cell activator; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Honeysuckle (*Lonicera japonica*)  
(flower bud, exts.; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Jujube (*Zizyphus*)  
(fruit, exts., cell activator; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Rose (*Rosa*)  
(fruit, exts., moisturizer; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Momordica grosvenori  
(fruit, exts.; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Wheat  
(germ, exts., moisturizer; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Lactoferrins  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(hydrolyzates, cell activator; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Squid  
(ink, exts., cell activator; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Honey  
(moisturizer; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Cosmetics  
(moisturizers; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Cattail (*Typha*)  
(pollen, exts.; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Sugarcane  
(raw sugar from, exts., moisturizer; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Mulberry (*Morus alba*)  
(root bark, exts., moisturizer; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Acanthopanax  
Lycium chinense  
(root bark, exts.; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Angelica acutiloba  
Lithospermum

- (root, exts.; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Ceratonia siliqua  
(seed, exts., moisturizer; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Proteins, specific or class  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(silk, cell activator; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT Lily (Lilium)  
(white, exts., moisturizer; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT 87-28-5, Ethylene glycol salicylate 94-09-7, Ethyl p-aminobenzoate 104-28-9 104-98-3, Urocanic acid 118-56-9, Homomenthyl salicylate 118-60-5, 2-Ethylhexyl salicylate 131-55-5, 2,2',4,4'-Tetrahydroxybenzophenone 131-56-6, 2,4-Dihydroxybenzophenone 131-57-7, 2-Hydroxy-4-methoxybenzophenone 136-44-7, Glyceryl p-aminobenzoate 150-13-0, p-Aminobenzoic acid 1314-13-2, Zinc oxide, biological studies 1314-23-4, Zirconium oxide, biological studies 1332-37-2, Iron oxide, biological studies 2440-22-4, 2-(2-Hydroxy-5-methylphenyl)benzotriazole 3121-60-6 5466-77-3 13463-67-7, Titania, biological studies 14779-78-3, Amyl N,N-dimethyl-p-aminobenzoate 21245-02-3 27538-35-8, Ethyl urocanate 70356-09-1, 4-tert-Butyl-4'-methoxydibenzoylmethane 76840-16-9, Glyceryl mono-2-ethylhexanoate di-p-methoxycinnamate 86636-96-6, Potassium 4-methoxycinnamate 288571-71-1 288573-50-2 288573-51-3  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(UV shield; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT 57-88-5, Cholesterol, biological studies 69-65-8, Mannitol 70-18-8, Glutathione, biological studies 71-00-1, Histidine, biological studies 73-22-3, Tryptophan, biological studies 117-39-5, Quercetin 131-54-4, 2,2'-Dihydroxy-4,4'-dimethoxybenzophenone 149-91-7, Gallic acid, biological studies 153-18-4, Rutin 154-23-4, Catechin 472-61-7, Astaxanthin 522-12-3, Quercitrin 635-65-4, Bilirubin, biological studies 9054-89-1, Superoxide dismutase  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(active oxygen scavenger; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT 502-65-8D, Lycopene, complexes  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT 50-81-7, Vitamin C, biological studies 59-43-8, biological studies 1406-16-2, Vitamin D 1406-18-4, Vitamin E 11103-57-4, Vitamin A 30587-81-6, Dibutylhydroxytoluene 82321-68-4, Dibutylhydroxyanisole  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(antioxidant; antiaging cosmetics containing tomato

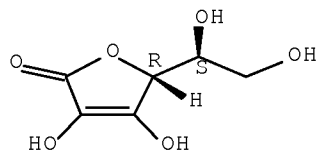
- pigments mainly comprising lycopene complexes and other active ingredients)
- IT 50-21-5, biological studies 50-28-2, Estradiol, biological studies 50-70-4, Sorbitol, biological studies 50-99-7, Glucose, biological studies 51-35-4, Hydroxyproline 52-90-4, Cysteine, biological studies 56-40-6, Glycine, biological studies 56-41-7, L-Alanine, biological studies 56-45-1, Serine, biological studies 56-65-5, Adenosine triphosphate, biological studies 56-84-8, Aspartic acid, biological studies 56-85-9, Glutamine, biological studies 56-86-0, Glutamic acid, biological studies 56-87-1, Lysine, biological studies 56-89-3, Cystine, biological studies 57-13-6, Urea, biological studies 57-48-7, Fructose, biological studies 57-50-1, biological studies 58-08-2, Caffeine, biological studies 58-55-9, Theophylline, biological studies 58-64-0, Adenosine diphosphate, biological studies 58-86-6, Xylose, biological studies 60-18-4, Tyrosine, biological studies 60-92-4 61-19-8, Adenosine monophosphate, biological studies 63-68-3, Methionine, biological studies 63-91-2, Phenylalanine, biological studies 65-71-4, Thymine 69-72-7, biological studies 69-79-4, Maltose 69-89-6, Xanthine 70-26-8, Ornithine 70-47-3, Asparagine, biological studies 71-30-7, Cytosine 72-18-4, Valine, biological studies 72-19-5, Threonine, biological studies 73-24-5, Adenine, biological studies 73-32-5, Isoleucine, biological studies 73-40-5, Guanine 74-79-3, Arginine, biological studies 77-92-9, biological studies 79-14-1, biological studies 81-13-0, D-Panthenol 87-69-4, biological studies 87-89-8, Inositol 87-99-0, Xylitol 98-79-3, Pyrrolidonecarboxylic acid 99-20-7, Trehalose 110-15-6, Butanedioic acid, biological studies 115-77-5, biological studies 146-14-5, Flavin adenine dinucleotide 147-85-3, Proline, biological studies 149-32-6, Erythritol 372-75-8, Citrulline 463-40-1,  $\alpha$ -Linolenic acid 481-49-2, Cepharanthine 499-44-5, Hinokitiol 506-26-3,  $\gamma$ -Linolenic acid 585-88-6, Maltitol 1190-94-9, Hydroxylysine 3081-61-6, Theanine 6915-15-7 7665-99-8, Cyclic GMP 7678-95-7 9004-53-9, Dextrin 9004-61-9, Hyaluronic acid 9005-49-6, Heparin, biological studies 9007-28-7, Chondroitin sulfate 9050-30-0, Heparan sulfate 9056-36-4, Keratan sulfate 24967-94-0, Dermatan sulfate 25378-27-2, Eicosapentaenoic acid
- RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (cell activator; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT 11129-18-3, Cerium oxide
- RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (exts.; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT 50-33-9, Phenylbutazone, biological studies 53-86-1, Indomethacin 60-32-2 61-68-7, Mefenamic acid 97-59-6, Allantoin 471-53-4, Glycyrrhetic acid 489-84-9, Guaiazulene 1197-18-8, Tranexamic acid 1405-86-3, Glycyrrhizinic acid 15307-79-6, Diclofenac sodium 15687-27-1, Ibuprofen 22071-15-4, Ketoprofen
- RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (inflammation inhibitor; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)
- IT 50-81-7, Vitamin C, biological studies
- RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
- (antioxidant; antiaging cosmetics containing tomato

pigments mainly comprising lycopene complexes and other active ingredients)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

Absolute stereochemistry.



IT 60-92-4 61-19-8, Adenosine

monophosphate, biological studies

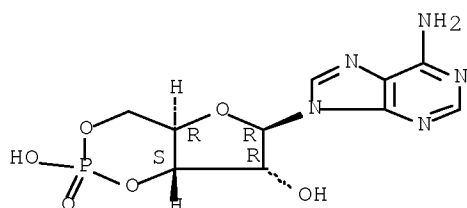
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(cell activator; antiaging cosmetics containing tomato pigments mainly comprising lycopene complexes and other active ingredients)

RN 60-92-4 CAPLUS

CN Adenosine, cyclic 3',5'-(hydrogen phosphate) (CA INDEX NAME)

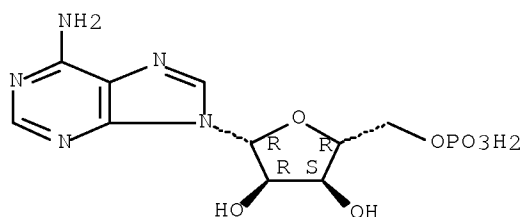
Absolute stereochemistry.



RN 61-19-8 CAPLUS

CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



L64 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:41974 CAPLUS Full-text

DOCUMENT NUMBER: 128:106245

ORIGINAL REFERENCE NO.: 128:20735a,20738a

TITLE: Skin-lightening and antiaging cosmetics

# Jody Karol 10/523,605

INVENTOR(S): Seiki, Hitoshi; Okano, Yuri  
 PATENT ASSIGNEE(S): NOEVIR Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 10007541	A	19980113	JP 1996-181321	19960620
PRIORITY APPLN. INFO.:			JP 1996-181321	19960620

ED Entered STN: 24 Jan 1998

AB Skin-lightening and antiaging cosmetics comprise: (A) lipoic acid and (B) compds. selected from vitamin A or its derivs., carotenes, riboflavin or its derivs., vitamin B6 or its salts or derivs., cobalamins, vitamin C or its salts or derivs., vitamin E or its derivs., vitamin K, adenosine or its derivs., flavonoids and tannins, in addition to other ingredients.

IC ICM A61K007-48  
 ICS A61K007-00

CC 62-4 (Essential Oils and Cosmetics)

ST skin lightening antiaging cosmetic vitamin;  
 adenosine flavonoid skin lightening antiaging  
 cosmetic; tannin skin lightening antiaging  
 cosmetic

IT Cosmetics

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(antiaging; skin-lightening and antiaging  
 cosmetics)

IT Carotenes, biological studies

Corrinoids

Flavonoids

Tannins

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(skin-lightening and antiaging cosmetics)

IT Cosmetics

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(skin-lightening; skin-lightening and  
 antiaging cosmetics)

IT Cosmetics

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(wrinkle-preventing; skin-lightening and antiaging  
 cosmetics)

IT 50-81-7, Vitamin C, biological studies

56-65-5, ATP, biological studies 58-64-0, ADP, biological studies

59-02-9,  $\alpha$ -Tocopherol 61-19-8, AMP, biological studies

65-23-6, Pyridoxine 66-72-8, Pyridoxal 68-19-9, Cyanocobalamine

68-26-8, Retinol 79-80-1, 3-DehydroRetinol 83-88-5, Riboflavin,  
 biological studies 85-87-0, Pyridoxamine 116-31-4, Retinal 119-13-1,

$\delta$ -Tocopherol 120-80-9, 1,2-Benzenediol, biological studies

148-03-8,  $\beta$ -Tocopherol 302-79-4, Retinoic acid 432-70-2,

$\alpha$ -Carotene 462-20-4, Dihydrolipoic acid 472-87-7,

3-DehydroRetinal 472-93-5,  $\gamma$ -Carotene 490-46-0, EpiCatechin

490-83-5 1406-18-4, Vitamin E 3884-47-7, Dihydrolipoamide 4159-20-0,



# Jody Karol 10/523,605

3-DehydroRetinoic acid 7235-40-7,  $\beta$ -Carotene 7616-22-0,  
 $\gamma$ -Tocopherol 8059-24-3, Vitamin B6 11103-57-4, Vitamin A  
 12001-79-5, Vitamin K 13422-51-0, Hydroxycobalamine 13422-55-4,  
 Methylcobalamine 125913-31-7, Ascorbic acid phosphate  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(skin-lightening and antiaging cosmetics)

IT 50-81-7, Vitamin C, biological studies

61-19-8, AMP, biological studies

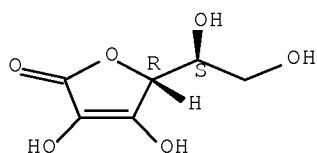
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(skin-lightening and antiaging cosmetics)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

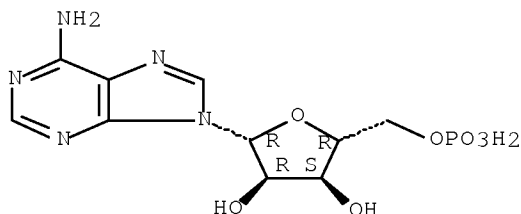
Absolute stereochemistry.



RN 61-19-8 CAPLUS

CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



L64 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:731707 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 128:16289

ORIGINAL REFERENCE NO.: 128:3091a,3094a

TITLE: Compositions for external use

INVENTOR(S): Kondo, Chiharu; Senoo, Masami

PATENT ASSIGNEE(S): Kosei Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 09291011	A	19971111	JP 1996-127955	19960424
PRIORITY APPLN. INFO.:			JP 1996-127955	19960424

ED Entered STN: 20 Nov 1997

AB Compns. [cosmetics or topical prepns.] for external use comprise: (A) apple exts. and (B) tyrosinase inhibitors, active oxygen scavengers, antioxidants, cell activators, antiinflammatories and/or moisturizers. A skin-care and antiaging lotion contained glycerin 5.0, 1,3-butylene glycol 6.5, POE sorbitan monolaurate 1.2, ethanol 8.0, apple exts. 0.01, superoxide dismutase 0.01, preservatives, perfumes, and purified water to 100 %.

IC ICM A61K007-00  
ICS A61K007-00; A61K007-42; A61K007-48

CC 62-4 (Essential Oils and Cosmetics)  
Section cross-reference(s): 63

ST skin cosmetic apple ext tyrosinase inhibitor; active oxygen scavenger apple ext cosmetic; antioxidant apple ext cosmetic; cell activator apple ext cosmetic; antiinflammatory moisturizer apple ext cosmetic

IT Animal cell  
(activators; skin-care cosmetics containing apple exts. and other substances)

IT Cosmetics  
(antiaging; skin-care cosmetics containing apple exts. and other substances)

IT Cosmetics  
(cleansing; skin-care cosmetics containing apple exts. and other substances)

IT Hair preparations  
(conditioners, tonics; skin-care cosmetics containing apple exts. and other substances)

IT Cosmetics  
(creams; skin-care cosmetics containing apple exts. and other substances)

IT Cosmetics  
(emulsions; skin-care cosmetics containing apple exts. and other substances)

IT Apple  
(exts.; skin-care cosmetics containing apple exts. and other substances)

IT Cosmetics  
(gels; skin-care cosmetics containing apple exts. and other substances)

IT Carboxylic acids, biological studies  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(hydroxy; skin-care cosmetics containing apple exts. and other substances)

IT Cosmetics  
(lotions; skin-care cosmetics containing apple exts. and other substances)

IT Plant (Embryophyta)  
(medicinal, exts.; skin-care cosmetics containing apple exts. and other substances)

IT Cosmetics  
(moisturizers; skin-care cosmetics containing apple exts. and other substances)

IT Drug delivery systems  
(ointments; skin-care cosmetics containing apple exts. and other substances)

IT Cosmetics  
(packs; skin-care cosmetics containing apple exts. and other substances)

IT Anti-inflammatory agents

Antioxidants

Cosmetics

(skin-care cosmetics containing apple exts. and other substances)

IT Carotenes, biological studies

Collagens, biological studies

DNA

Elastins

Mucopolysaccharides, biological studies

Proteins, general, biological studies

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(skin-care cosmetics containing apple exts. and other substances)

IT Drug delivery systems

(topical; skin-care cosmetics containing apple exts. and other substances)

IT 7782-44-7, Oxygen, biological studies

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(active, scavengers; skin-care cosmetics containing apple exts. and other substances)

IT 9002-10-2, Tyrosinase

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(inhibitors; skin-care cosmetics containing apple exts. and other substances)

IT 50-28-2, Estradiol, biological studies 50-33-9, Phenylbutazone, biological studies 50-70-4, Sorbitol, biological studies 50-81-7, Vitamin c, biological studies 52-90-4D, Cysteine, derivs. 53-86-1, Indomethacin 56-65-5, Atp, biological studies 57-13-6, Urea, biological studies 57-88-5, Cholesterol, biological studies 60-32-2,  $\epsilon$ -Aminocaproic acid 61-19-8, Amp, biological studies 61-68-7, Mefenamic acid 69-65-8, Mannitol 69-72-7, Salicylic acid, biological studies 69-89-6, Xanthine 70-18-8, Glutathione, biological studies 71-00-1, Histidine, biological studies 73-22-3, Tryptophan, biological studies 73-40-5, Guanine 79-14-1, Glycolic acid, biological studies 87-89-8, myo-Inositol 97-59-6, Allantoin 98-79-3, Pyrrolidonecarboxylic acid 99-20-7 110-15-6, Butanedioic acid, biological studies 117-39-5, Quercetin 120-80-9, 1,2-Benzenediol, biological studies 123-31-9, Hydroquinone, biological studies 128-37-0, Bht, biological studies 149-91-7, Gallic acid, biological studies 463-40-1 471-53-4, Glycyrrhetic acid 489-84-9, Guaiazulene 499-44-5, Hinokitiol 506-26-3,  $\gamma$ -Linolenic acid 522-12-3, Quercitrin 635-65-4, Bilirubin, biological studies 1314-13-2, Zinc oxide, biological studies 1406-16-2, Vitamin d 1406-18-4, Vitamin e 7235-40-7,  $\beta$ -Carotene 9004-61-9, Hyaluronic acid 9005-49-6, Heparin, biological studies 9007-28-7, Chondroitin sulfate 9050-30-0, Heparan sulfate 9054-89-1, Superoxide dismutase 9056-36-4, Keratan sulfate 10417-94-4, Eicosapentaenoic acid 11103-57-4, Vitamin a 12001-76-2, Vitamin b 15307-79-6, Diclofenac sodium salt 15687-27-1, Ibuprofen 22071-15-4, Ketoprofen 24967-94-0, Dermatan sulfate 25013-16-5, Bha 103000-77-7, Glycyrrhetic acid 169799-44-4, Keratin

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(skin-care cosmetics containing apple exts. and other substances)

IT 50-81-7, Vitamin c, biological studies

61-19-8, Amp, biological studies

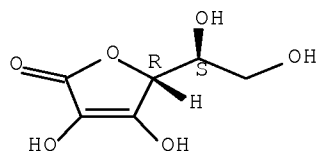
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(skin-care cosmetics containing apple exts. and other substances)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

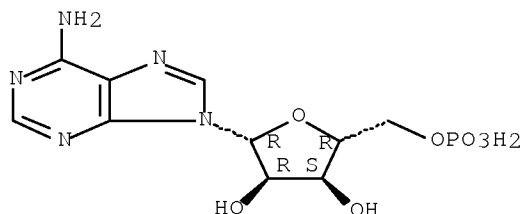
Absolute stereochemistry.



RN 61-19-8 CAPLUS

CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



L64 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1994:517347 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 121:117347

ORIGINAL REFERENCE NO.: 121:21021a,21024a

TITLE: Anti-aging cosmetics  
containing plant extracts and skin-whitening agents

INVENTOR(S): Iwanaga, Atsufumi

PATENT ASSIGNEE(S): Sansei Seiyaku Kk, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06048934	A	19940222	JP 1993-78368	19930405
JP 3818674	B2	20060906		

PRIORITY APPLN. INFO.: JP 1992-141571 A1 19920602

ED Entered STN: 03 Sep 1994

AB A skin preparation comprises (1) an extract of pepper, dill, anise, tarragon, and/or Cistanche, (2) a color-lightening agent selected from kojic acid, ascorbic acid, hydroquinone, liquiritin, and placental extract, and/or (3) a collagen production enhancing agent selected from sage extract, Mg salt of ascorbic acid ester with phosphoric acid, adenosine-3',5'-cyclicmonophosphate, guanosine-3',5'-cyclic monophosphate,  $\gamma$ -aminobutyric acid, and retinoic acid. For example, a cream contained PEG monostearate 2.0, self-emulsifying glyceryl monostearate 5.0, stearic acid 5.0, behenyl alc.

# Jody Karol 10/523,605

1.0, liquid paraffin 10.0, glyceryl trioctanoate 10.0, kojic acid 1.0, dill extract 0.1, glycerin 5.0, ethylparaben 0.1, and distilled water to 100.0%.

IC ICM A61K007-48  
ICS A61K007-00; A61K035-78; A61K037-02

CC 62-4 (Essential Oils and Cosmetics)

ST antiaging cosmetic plant ext collagen promotor; cream  
antiaging dill ext kojic acid; skin lightening  
antiaging cosmetic plant ext

IT Placental hormones  
RL: BIOL (Biological study)  
(anti-aging cosmetics containing plant extract  
and and collagen production promoting agent and)

IT Sage  
(extract, anti-aging cosmetics containing plant  
exts. and skin-lightening agent and)

IT Anise  
Capsicum  
Cistanche  
Dill  
Tarragon  
(extract, anti-aging cosmetics containing skin-  
lightening agent and collagen production promoting agent and)

IT Collagens, biological studies  
RL: BIOL (Biological study)  
(production promoting agents for, anti-aging  
cosmetics containing plant exts. and skin-lightening  
agent and)

IT Cosmetics  
(antiaging, plant exts. and skin-lightening agent  
and collagen production promoting agents in)

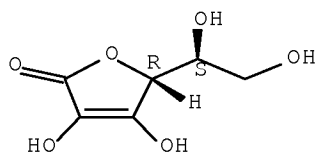
IT 50-81-7, Ascorbic acid, biological studies 56-12-2,  
 $\gamma$ -Aminobutyric acid, biological studies 60-92-4,  
Adenosine-3',5'-cyclicmonophosphate 123-31-9,  
Hydroquinone, biological studies 302-79-4, Retinoic acid 501-30-4,  
Kojic acid 551-15-5, Liquiritin 7665-99-8, Guanosine-3',5'-cyclic  
monophosphate 119588-63-5  
RL: BIOL (Biological study)  
(anti-aging cosmetics containing plant extract  
and)

IT 50-81-7, Ascorbic acid, biological studies  
60-92-4, Adenosine-3',5'-cyclicmonophosphate  
RL: BIOL (Biological study)  
(anti-aging cosmetics containing plant extract  
and)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (CA INDEX NAME)

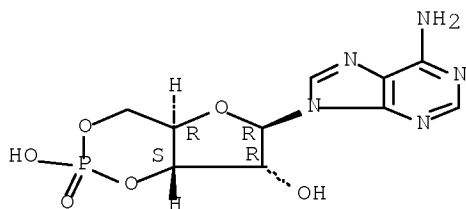
Absolute stereochemistry.



RN 60-92-4 CAPLUS

CN Adenosine, cyclic 3',5'-(hydrogen phosphate) (CA INDEX NAME)

Absolute stereochemistry.



L64 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1994:450116 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 121:50116

ORIGINAL REFERENCE NO.: 121:8823a,8826a

TITLE: Pharmaceutical compositions for treatment of skin pigmentation

INVENTOR(S): Takemura, Tsukasa

PATENT ASSIGNEE(S): Meiji Seika Co, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06080564	A	19940322	JP 1992-235535	19920903
PRIORITY APPLN. INFO.:			JP 1992-235535	19920903

ED Entered STN: 06 Aug 1994

AB Chloasma-controlling compns. contain tranexamic acid (I), vitamin C, and vitamin B2 derivs., vitamin B6 derivs., and/or their salts as active ingredients. I 1500, vitamin C 600, FAD 130-145, and pyridoxal phosphate 60-90 mg/day were administered to patients with chloasma for ≤34 wk to show good clin. efficacy without adverse effects, vs. poor efficacy when administered without FAD or pyridoxal phosphate.

IC ICM A61K031-195

ICS A61K007-00; A61K031-375; A61K031-44; A61K031-525

ICA A61K007-48

CC 1-12 (Pharmacology)

IT Skin, disease

(melasma, treatment of, tranexamate and vitamins for)

IT 50-81-7D, Vitamin C, mixts. with tranexamate 83-88-5D, Vitamin B2, derivs., mixts. with tranexamate and vitamin C 1197-18-8D, Tranexamic acid, mixts. with vitamins 8059-24-3D, Vitamin B6, derivs., mixts. with tranexamate and vitamin C 156277-96-2

RL: BIOL (Biological study)

(for chloasma treatment)

IT 156277-96-2

RL: BIOL (Biological study)

(for chloasma treatment)

RN 156277-96-2 CAPLUS

CN L-Ascorbic acid, mixt. with trans-4-(aminomethyl)cyclohexanecarboxylic acid, 3-hydroxy-2-methyl-5-[(phosphonooxy)methyl]-4-pyridinecarboxaldehyde and riboflavin 5'-(trihydrogen diphosphate) P'→5'-ester with

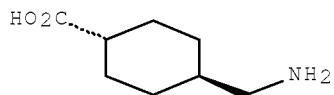
adenosine (9CI) (CA INDEX NAME)

CM 1

CRN 1197-18-8

CMF C8 H15 N O2

Relative stereochemistry.

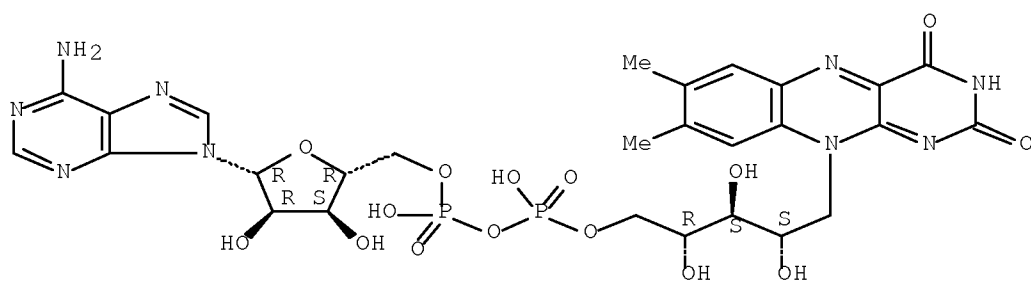


CM 2

CRN 146-14-5

CMF C27 H33 N9 O15 P2

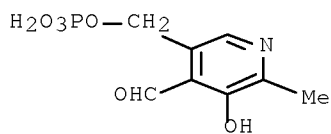
Absolute stereochemistry.



CM 3

CRN 54-47-7

CMF C8 H10 N O6 P

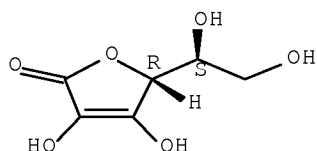


CM 4

CRN 50-81-7

CMF C6 H8 O6

Absolute stereochemistry.



L53 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:847032 CAPLUS Full-text  
 DOCUMENT NUMBER: 147:165424  
 TITLE: Childhood malnutrition is associated with a reduction  
 in the total melanin content of scalp hair  
 AUTHOR(S): McKenzie, Colin A.; Wakamatsu, Kazumasa;  
 Hanchard, Neil A.; Forrester, Terrence; Ito, Shosuke  
 CORPORATE SOURCE: Tropical Metabolism Research Unit, Tropical Medicine  
 Research Institute, University of the West Indies,  
 Mona, Jamaica  
 SOURCE: British Journal of Nutrition (2007), 98(1), 159-164  
 CODEN: BJNUAV; ISSN: 0007-1145  
 PUBLISHER: Cambridge University Press  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

ED Entered STN: 03 Aug 2007

AB Childhood malnutrition is associated with visible lightening of hair color (hypochromotrichia), but no systematic study has examined the biochem. basis of this change. We used HPLC to measure melanins in the scalp hair of 13 Jamaican children with primary malnutrition during various stages of their treatment and after recovery. During treatment for malnutrition, a progressive decrease in the total melanin content along the hair shaft from tip to root (root/tip ratio  $0.62 \pm 0.31$ ) was observed. This ratio was different from the ratio determined several months after discharge from hospital ( $0.93 \pm 0.23$ ) and in normal controls ( $0.97 \pm 0.12$ ). Thus, a decrease in melanin content is associated with periods of malnutrition. The low root/tip ratio during malnutrition presumably arises because the tips reflect prior hair growth during 'normal' nutrition and the roots reflect hair growth during malnutrition; the return of the root/tip ratio to control levels reflects 'recovery' from malnutrition. Decreased dietary intake or availability of tyrosine, a key substrate in melanin biosynthesis, may play a role in the decreased hair melanin content during malnutrition. The precise mechanisms by which melanin content is decreased and the role of aromatic amino acid availability in hair color change and other features of childhood malnutrition remain to be further explored.

CC 18-7 (Animal Nutrition)  
 Section cross-reference(s): 14

ST child malnutrition hair color lightening melanin content

REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L53 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2006:656036 CAPLUS Full-text  
 DOCUMENT NUMBER: 145:109781  
 TITLE: Solid oil-in-water emulsions containing biologically  
 active electrolytes  
 INVENTOR(S): Shinohara, Shigeo; Narano, Fumiki;  
 Tsujimoto, Shinji; Saeki, Isamu



# Jody Karol 10/523,605

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan  
 SOURCE: PCT Int. Appl., 27 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2006070789	A1	20060706	WO 2005-JP23865	20051227
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2006182746	A	20060713	JP 2004-381162	20041228
AU 2005320616	A1	20060706	AU 2005-320616	20051227
CA 2590928	A1	20060706	CA 2005-2590928	20051227
EP 1842522	A1	20071010	EP 2005-822499	20051227
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 101094645	A	20071226	CN 2005-80045327	20051227
IN 2007DN04618	A	20070817	IN 2007-DN4618	20070615
US 20070280979	A1	20071206	US 2007-722965	20070627
KR 2007095305	A	20070928	KR 2007-714814	20070628
PRIORITY APPLN. INFO.:			JP 2004-381162	A 20041228
			WO 2005-JP23865	W 20051227

ED Entered STN: 07 Jul 2006

AB Disclosed is a solid composition consisting of an oil-in-water emulsion that has satisfactory hardness, ensuring excellent feeling upon use and is capable of satisfactory expression of the physiol. functions of electrolytes. The solid composition can be obtained by preparing an oil-in-water emulsion through combining together of solid oils, liquid oils, surfactants, polyhydric alcs., electrolytes, and water. For example, lipsticks contained paraffin oil 13.5, 2-hexyldecyl isostearate 13, methylpolysiloxane 0.5, candelilla wax 13.5, hydrogenated jojoba oil 8, lipophilic glycerin monostearate 3, stearyl glycyrrhetinate 0.1, ethoxylated hydrogenated castor oil 0.5, maltitol hydroxyalkyl ether 3, decaglyceryl monostearate 1, sodium N-stearoyl-L-glutamate 0.5, glycerin 16, 1,3-butylene glycol 6, ascorbic acid 2-glucoside 2, disodium AMP 3, and distilled water balance to 100 %.

CC 62-4 (Essential Oils and Cosmetics)

IT 50-81-7, L-Ascorbic acid, biological studies 56-65-5, Adenosine triphosphate, biological studies 56-81-5, Glycerin, biological studies 58-64-0, Adenosine 5'-(trihydrogen diphosphate), biological studies 60-92-4, Adenosine-3',5'-cyclic phosphate 61-19-8, 5'-Adenylic acid, biological studies 107-88-0, 1,3-Butylene glycol 111-01-3, Squalane 4578-31-8, Disodium adenylate 13832-70-7, Stearyl glycyrrhetinate 25265-71-8, Dipropylene glycol 31566-31-1, Glycerin monostearate 37318-31-3, Sucrose stearate 38079-62-8, Sodium N-stearoyl-L-glutamate 59113-36-9, Diglycerin 59130-69-7, Cetyl 2-ethylhexanoate 69247-84-3, 2-Hexyldecyl isostearate 79777-30-3, Decaglyceryl monostearate 129499-78-1, L-Ascorbic acid

2-glucoside

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(solid oil-in-water emulsions comprising oils and surfactants and polyhydric alcs. and electrolytes)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L53 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:720152 CAPLUS Full-text

DOCUMENT NUMBER: 141:230324

TITLE: Plant extracts as enzyme inhibitors, and cosmetics, foods, or beverages containing them

INVENTOR(S): Kawai, Norihisa; Wakamatsu, Kanae

PATENT ASSIGNEE(S): Ichimaru Pharcos Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 57 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2004244382	A	20040902	JP 2003-36795	20030214
PRIORITY APPLN. INFO.:			JP 2003-36795	20030214

ED Entered STN: 03 Sep 2004

AB Elastase inhibitors, collagenase inhibitors, or hyaluronidase inhibitors, useful for conditioning of skin and hair, contain exts. of plants selected from Agave americana, A. sisalana, and Adenophora triphylla japonica. Dried Agave americana (100 g) was immersed in 50% 1,3-butylene glycol solution at room temperature for 5 days to give an extract having inhibitory activity against elastase, collagenase, and hyaluronidase. The extract showed LD50 of  $\geq 2000$  mg/kg p.o. in mice. Formulation examples of cosmetics, hair compns., bath preps., dentifrices, dishwashing detergents, foods, and beverages are given.

IC ICM A61K007-48

ICS A23L001-30; A61K007-00; C12N009-99

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 17, 46, 63

IT Cosmetics

(antiaging; plant exts. as enzyme inhibitors, and cosmetics, foods, or beverages containing them)

L53 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:818240 CAPLUS Full-text

DOCUMENT NUMBER: 139:296572

TITLE: Composition containing purine an pyrimidine nucleic acid-related substances for promoting cell proliferation

INVENTOR(S): Kawamura, Mitsuaki; Shinohara, Shigeo

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----

# Jody Karol 10/523,605

WO 2003084485 A1 20031016 WO 2003-JP4247 20030403  
W: AU, BR, CA, CN, ID, IN, JP, KR, PH, US  
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
IT, LU, MC, NL, PT, SE, SI, SK, TR  
CA 2480080 A1 20031016 CA 2003-2480080 20030403  
AU 2003220857 A1 20031020 AU 2003-220857 20030403  
EP 1498101 A1 20050119 EP 2003-715748 20030403  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK  
BR 2003009127 A 20050201 BR 2003-9127 20030403  
CN 1646078 A 20050727 CN 2003-808030 20030403  
TW 260225 B 20060821 TW 2003-92108012 20030408  
IN 2004DN02911 A 20070525 IN 2004-DN2911 20040928  
US 20050222076 A1 20051006 US 2004-510738 20041012  
PRIORITY APPLN. INFO.: JP 2002-106300 A 20020409  
WO 2003-JP4247 W 20030403

ED Entered STN: 17 Oct 2003

AB It is intended to provide a method of effectively exerting the cell proliferation promoting effect of a purine nucleic acid-related substance. Namely, disclosed are a composition for cell proliferation characterized by containing a purine nucleic acid-related substance and a pyrimidine nucleic acid-related substance; a method of potentiating the cell proliferation promoting effect of a purine nucleic acid-related substance characterized by using a combination of the purine nucleic acid-related substance with a pyrimidine nucleic acid-related substance; and a method of promoting cell proliferation characterized by using a combination of a purine nucleic acid-related substance with a pyrimidine nucleic acid-related substance and applying the same to the skin or mucosa. The effect of adenosine monophosphate disodium salt in combination with uridine monophosphate disodium salt on cultured human keratinocyte proliferation was examined. A cosmetic lotion containing adenosine monophosphate disodium salt 3, uridine monophosphate disodium salt 0.1, polyoxyethylene hydrogenated castor oil 0.7, ethanol 5, glycerin 2, preservative 0.2, fragrance/pH adjuster q.s., and water balance to 100 % was formulated.

IC ICM A61K007-00

ICS A61K007-04; A61K007-06; A61K007-48; A61K031-7072; A61K031-7076;  
A61P017-02; A61P043-00

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

IT Cosmetics

(antiaging; composition containing purine an pyrimidine nucleic acid-related substances for promoting cell proliferation)

IT Cosmetics

(skin-lightening; composition containing purine an pyrimidine nucleic acid-related substances for promoting cell proliferation)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L53 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:508481 CAPLUS Full-text

DOCUMENT NUMBER: 139:57664

TITLE: Elastase inhibitor containing Potentilla tormentilla, Juniperus, and/or Astragalus sinicus extracts

INVENTOR(S): Kojima, Hiroyuki; Doi, Masako; Wakamatsu, Kanae

PATENT ASSIGNEE(S): Ichimaru Pharcos Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.  
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003183171	A	20030703	JP 2001-390145	20011221
PRIORITY APPLN. INFO.:			JP 2001-390145	20011221
ED Entered STN: 03 Jul 2003				
AB The invention relates to an elastase inhibitor suitable for use in an anti-aging cosmetic composition, wherein the elastase inhibitor contains Potentilla tormentilla, Juniperus, and/or Astragalus sinicus extract. An extract of Potentilla tormentilla was prepared, and combined at 5 % with other ingredients to obtain a milky lotion.				
IC ICM A61K035-78				
ICS A61K007-00; A61K007-035; A61K007-06; A61K007-075; A61K007-16; A61K007-42; A61K007-48; A61K007-50; A61P043-00				
CC 62-4 (Essential Oils and Cosmetics)				
Section cross-reference(s): 46, 63				
IT Cosmetics				
(antiaging; elastase inhibitor containing Potentilla tormentilla, Juniperus, and/or Astragalus sinicus exts.)				

L53 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2003:366770 CAPLUS Full-text  
 DOCUMENT NUMBER: 138:358201  
 TITLE: Hyaluronidase inhibitors containing Cyperus rotundus extracts and their uses for cosmetics and foods  
 INVENTOR(S): Wakamatsu, Kanee; Tsuda, Tomoka  
 PATENT ASSIGNEE(S): Ichimaru Pharcos Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003137726	A	20030514	JP 2001-334070	20011031
PRIORITY APPLN. INFO.:			JP 2001-334070	20011031
ED Entered STN: 14 May 2003				
AB Hyaluronidase inhibitors containing C. rotundus exts. and cosmetics and foods containing the inhibitors are claimed. The inhibitors suppress degradation of hyaluronic acid in connective tissues, thus preventing wrinkles, sags, and skin inflammation. Application of a cosmetic emulsion containing C. rotundus extract (preparation given) to face increased elasticity of skin and reduced degree of wrinkles and sags. Effect of miso soup containing the extract on eczema, pruritus, and rough skin was also shown.				
IC ICM A61K007-00				
ICS A23L001-30; A61K007-06; A61K007-08; A61K007-26; A61K007-48; A61K007-50; A61K035-78; A61P017-16; A61P043-00; C12N009-99				
CC 62-4 (Essential Oils and Cosmetics)				
Section cross-reference(s): 7, 17, 63				
ST Cyperus ext hyaluronidase inhibitor antiaging cosmetic food;				
skin trouble treatment food Cyperus ext hyaluronidase inhibitor				
IT Cosmetics				
(antiaging; cosmetics and foods containing Cyperus rotundus exts. as hyaluronidase inhibitors for treatment of wrinkle, inflammatory skin troubles such as eczema, pruritus, and rough skin)				

# Jody Karol 10/523,605

L53 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:349205 CAPLUS Full-text

DOCUMENT NUMBER: 138:343488

TITLE: Skin antiaging agents and cosmetic compositions containing Oenothera polyphenols

INVENTOR(S): Hori, Michimasa; Wakamatsu, Kanae; Yoshida, Masatake; Kodaira, Takeshi

PATENT ASSIGNEE(S): Ichimaru Pharcos Inc., Japan; Shin Nippon Yakugyo Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.  
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003128511	A	20030508	JP 2001-320158	20011018
PRIORITY APPLN. INFO.:			JP 2001-320158	20011018

ED Entered STN: 08 May 2003

AB The agents, which prevent denaturation of collagen, elastin, and hyaluronic acid for prevention and treatment of wrinkles and sagging, contain polyphenols of *O. biennis*. A cosmetic emulsion was prepared from squalane 5.0, olive oil 5.0, jojoba oil 5.0, cetyl alc. 1.5, glycerin monostearate 2.0, polyoxyethylene cetyl ether 3.0, polyoxyethylene sorbitan monooleate 2.0, 1,3-butylene glycol 1.0, glycerin 2.0, butylene glycol extract of *O. biennis* 5.0, antiseptic, perfume, and H<sub>2</sub>O to 100 weight%.

IC ICM A61K007-00  
ICS A61K007-021; A61K007-06; A61K007-075; A61K007-08; A61K007-11;  
A61K007-16; A61K007-42; A61K007-48; A61K007-50

CC 62-4 (Essential Oils and Cosmetics)

ST cosmetic skin antiaging agent polyphenol *Oenothera*

IT Cosmetics

(antiaging; skin antiaging agents containing polyphenols of *Oenothera biennis*)

IT Detergents

(dishwashing; skin antiaging agents containing polyphenols of *Oenothera biennis*)

IT Medical goods

(dressings; skin antiaging agents containing polyphenols of *Oenothera biennis*)

IT Phenols, biological studies

RL: BSU (Biological study, unclassified); COS (Cosmetic use); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); USES (Uses)

(polyphenols, nonpolymeric; skin antiaging agents containing polyphenols of *Oenothera biennis*)

IT Bath preparations

Hair preparations

Human

*Oenothera biennis*

Shampoos

Sunscreens

(skin antiaging agents containing polyphenols of *Oenothera biennis*)

L53 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:257780 CAPLUS Full-text

DOCUMENT NUMBER: 138:275991

# Jody Karol 10/523,605

TITLE: Cosmetic or food compositions containing protein hydrolyzates  
 INVENTOR(S): Nishibe, Yukinobu; Wakamatsu, Kanae; Nanami, Yoshihiko  
 PATENT ASSIGNEE(S): Ichimaru Pharcos Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 35 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003095913	A	20030403	JP 2001-289204	20010921
PRIORITY APPLN. INFO.:			JP 2001-289204	20010921

ED Entered STN: 03 Apr 2003

AB The invention relates to a skin moisturizer, skin antiaging, antiinflammatory composition suitable for use in a cosmetic or a food, wherein the composition is characterized by containing silk, keratin, and/or collagen protein hydrolyzate. The composition may further contain Rabdosisia, hypericum, Salvia officinalis, Tilia, and/or Momordica grosvenori extract. A cosmetic emulsion containing silk protein hydrolyzate 3, Rabdosisia extract 3%, and other ingredients and water q.s., to 100 % was formulated.

IC ICM A61K007-48

ICS A23L001-305; A61K007-00

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 17

IT Cosmetics

(antiaging; skin moisturizer, skin antiaging, antiinflammatory composition for cosmetic or food compns. containing protein hydrolyzates with/without of plant exts.)

IT Cosmetics

(cleansing; skin moisturizer, skin antiaging, antiinflammatory composition for cosmetic or food compns. containing protein hydrolyzates with/without of plant exts.)

IT Hair preparations

(conditioners; skin moisturizer, skin antiaging, antiinflammatory composition for cosmetic or food compns. containing protein hydrolyzates with/without of plant exts.)

IT Bakery products

(cookies; skin moisturizer, skin antiaging, antiinflammatory composition for cosmetic or food compns. containing protein hydrolyzates with/without of plant exts.)

IT Cosmetics

(creams; skin moisturizer, skin antiaging, antiinflammatory composition for cosmetic or food compns. containing protein hydrolyzates with/without of plant exts.)

IT Cosmetics

(emulsions; skin moisturizer, skin antiaging, antiinflammatory composition for cosmetic or food compns. containing protein hydrolyzates with/without of plant exts.)

IT Hypericum

Momordica grosvenori

Rabdosisia

Salvia officinalis

Tilia  
 (exts.; skin moisturizer, skin antiaging, antiinflammatory  
 composition for cosmetic or food compns. containing protein hydrolyzates  
 with/without of plant exts.)

IT Cosmetics  
 (foundations; skin moisturizer, skin antiaging,  
 antiinflammatory composition for cosmetic or food compns. containing  
 protein  
 hydrolyzates with/without of plant exts.)

IT Hair preparations  
 (growth stimulants; skin moisturizer, skin antiaging,  
 antiinflammatory composition for cosmetic or food compns. containing  
 protein  
 hydrolyzates with/without of plant exts.)

IT Collagens, biological studies  
 Keratins  
 RL: COS (Cosmetic use); FFD (Food or feed use); BIOL (Biological study);  
 USES (Uses)  
 (hydrolyzates; skin moisturizer, skin antiaging,  
 antiinflammatory composition for cosmetic or food compns. containing  
 protein  
 hydrolyzates with/without of plant exts.)

IT Cosmetics  
 (lotions; skin moisturizer, skin antiaging, antiinflammatory  
 composition for cosmetic or food compns. containing protein hydrolyzates  
 with/without of plant exts.)

IT Cosmetics  
 (moisturizers; skin moisturizer, skin antiaging,  
 antiinflammatory composition for cosmetic or food compns. containing  
 protein  
 hydrolyzates with/without of plant exts.)

IT Cosmetics  
 (oil; skin moisturizer, skin antiaging, antiinflammatory  
 composition for cosmetic or food compns. containing protein hydrolyzates  
 with/without of plant exts.)

IT Cosmetics  
 (packs; skin moisturizer, skin antiaging, antiinflammatory  
 composition for cosmetic or food compns. containing protein hydrolyzates  
 with/without of plant exts.)

IT Meat  
 (sausage; skin moisturizer, skin antiaging, antiinflammatory  
 composition for cosmetic or food compns. containing protein hydrolyzates  
 with/without of plant exts.)

IT Protein hydrolyzates  
 RL: COS (Cosmetic use); FFD (Food or feed use); BIOL (Biological study);  
 USES (Uses)  
 (silk; skin moisturizer, skin antiaging, antiinflammatory  
 composition for cosmetic or food compns. containing protein hydrolyzates  
 with/without of plant exts.)

IT Anti-inflammatory agents  
 Bath preparations  
 Beverages  
 Bread  
 Chewing gum  
 Human  
 Pasta  
 Shampoos  
 Soups  
 Sunscreens  
 (skin moisturizer, skin antiaging, antiinflammatory composition

# Jody Karol 10/523,605

for cosmetic or food compns. containing protein hydrolyzates with/without  
of plant exts.)

L53 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2001:18909 CAPLUS Full-text  
DOCUMENT NUMBER: 134:90898  
TITLE: Skin and bath preparations containing extracts of  
olive leaves  
INVENTOR(S): Kawai, Tokuhisa; Tanaka, Kiyotaka; Wakamatsu,  
Kanae  
PATENT ASSIGNEE(S): Ichimaru Pharcos Inc., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2001002550	A	20010109	JP 1999-172306	19990618
PRIORITY APPLN. INFO.:			JP 1999-172306	19990618

ED Entered STN: 09 Jan 2001

AB This invention relates to melanin production inhibitors and active oxygen  
removals comprising exts. of olive leaves. For example, olive leaves 100 g  
was extracted with 1 kg 50 % 1,3-butylene glycol solution The obtained  
solution after filtration was tested for in vitro melanin formation inhibitory  
activities and SOD-like activities.

IC ICM A61K007-48  
ICS A61K007-00; A61K007-50; A61K031-00; A61K035-78; A61K007-02;  
A61K007-06; A61K007-075; A61K007-08; A61K007-42

CC 62-4 (Essential Oils and Cosmetics)

ST skin lightening cosmetic olive leaf ext; melanin formation  
inhibitor olive ext

IT Cosmetics  
(skin-lightening; cosmetics containing exts. of olive leaves for  
inhibition of melanin production and for removal of active oxygen)

L53 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1996:328272 CAPLUS Full-text  
DOCUMENT NUMBER: 124:352365  
ORIGINAL REFERENCE NO.: 124:65241a,65244a  
TITLE: Bath preparations or cosmetics containing extracts of  
Rubus chingii fruits for prevention of skin allergy,  
roughness and aging and atopic dermatitis  
INVENTOR(S): Tomono, Norihiro; Kawagoe, Chikako; Nishibe, Yukinaga;  
Wakamatsu, Kanae; Chikamatsu, Yoshihiro; Ando,  
Hiroshi  
PATENT ASSIGNEE(S): Ichimaru Pharcos Inc, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 08073342	A	19960319	JP 1994-238346	19940905
PRIORITY APPLN. INFO.:			JP 1994-238346	19940905



Jody Karol 10/523,605

ED Entered STN: 06 Jun 1996  
AB Bath prepns. or cosmetics for prevention of skin allergy, roughness and aging and atopic dermatitis comprise exts. of R. chingii fruits in addition to base materials. Thus, a bath preparation contained the exts. 10.0, sodium bicarbonate 45.0, sodium sulfate 40.0 weight%, perfumes, and colorants. The exts. also can be incorporated into hair prepns. for dandruff control.  
IC ICM A61K007-48  
ICS A61K007-00; A61K007-02; A61K007-06; A61K007-075; A61K007-08; A61K007-50; A61K035-78  
CC 62-4 (Essential Oils and Cosmetics)  
IT Cosmetics  
(antiaging, bath prepns. or cosmetics containing exts. of Rubus chingii fruits for prevention of skin allergy, roughness and aging and atopic dermatitis)

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